

# A CHECK LIST OF THE FISHES OF INDIA, BURMA & CEYLON

## PART I. ELASMOBRANCHII AND HOLOCEPHALI.

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## FOREWORD.

In connection with some important enquiries it became necessary to study the distribution of Sharks and Rays in some parts of the Indo-Pacific Region. This could not be done without first ascertaining the correct scientific names of all the species occurring in this Region. The work, therefore, involved hunting through vast masses of literature. Complete synonymies of all the species had to be prepared in order to determine their up-to-date names and all locality-records noted for obtaining data for their distribution. The work, which was entrusted to Dr. K. S. Misra, was not only extremely laborious, but required intimate knowledge of rules and procedure of taxonomy.

In the information thus collected, complete data for all the species of Sharks, Skates, Rays and Chimaeras occurring in India, Burma and Ceylon became available and it was felt that if this information could be published, in a condensed form, it would prove useful to workers on Fish and Fisheries. The scope was subsequently enlarged and the idea of preparing a complete Check List of the Fishes of India, Burma and Ceylon was taken up.

Although Day's *Fishes of India* and his two volumes in the *Fauna of British India Series* still remain monumental works on Indian Ichthyology, the names of the species included in these are in many cases out-of-date. Numerous enquiries are received in the Survey from Fisheries Departments, Universities and other institutions for supplying up-to-date scientific names of the species described in Day's works. Further, a great deal of work has been done on Indian fishes since Day's time, but unfortunately references to this work are very widely scattered in literature. The Check List is intended to bring together in a handy form these scattered references and to give the correct scientific names, locality-records and distributions of fishes occurring in India, Burma and Ceylon.

The boundaries of the area to be covered by the Check List were very carefully considered. Even though it was realized that any limits that may be fixed will be more or less arbitrary, it was necessary to lay down some definite lines, at least for the present work. For land and freshwater animals the boundaries of "India" had been previously defined by Blandford, but no guidance for fixing these limits for marine animals was available. Lt.-Col. R. B. Seymour Sewell, F.R.S., Editor in England of the *Fauna of British India Series*, was consulted and it was ultimately decided to fix the following limits :—

On the West, the Gulf of Oman and then from Ras el Haad southwards along Long. 60°E.; on the South, from Lat. 1°S., where it meets Long. 60°E., eastwards to the coast of Sumatra; on the East, the coast of Burma.

The southern limit has been fixed a little below the Equator so as to include the Addu Atoll, the Bay of Bengal and a part of the Indian Ocean to the south of it. On the east, the Andaman Sea would be

included, but it was considered that the Strait of Malacca should be outside our area. At this end the limit has been left somewhat indefinite for the present, but an imaginary line connecting Victoria Point, at the southern end of the Burmese Coast, with the north-western tip of Sumatra would roughly demarcate the areas. The limits defined above are practically the same as those adopted by authors preparing volumes on marine animals in the *Fauna of British India Series*, the only important difference being that whereas Col. Sewell had suggested the eastern limit 100°E., it was felt that this would extend our area a little too far east and would include parts, the fauna of which should be more appropriately included in the Malayan Region.

The first part of the "Check List" deals with the Elasmobranchii and the Holocephali, or the Sharks, Skates, Rays and Chimaeras of India, Burma and Ceylon. Dr. Misra has listed 109 species of these fishes from within this area, 106 of the Elasmobranchii and 3 of the Holocephali ; Day recorded only 69 species of the former and none of the latter.

The first part of the Check List, in the form in which it is published, really represents only a small part of the work that Dr. Misra had to do in collecting the information on which it is based.

KAISER CASTLE,  
Benares Cantt ;  
1946.

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## INTRODUCTION

Since the publication of Day's two volumes on fishes in the *Fauna of British India Series* in 1889, numerous papers have been written on Indian fishes which are scattered in different publications. The preparation of this list, which is intended to be published in several parts, has been undertaken with the object of bringing together the widely scattered data on the fishes of India, Burma and Ceylon.

References are given under each species. The first is the original reference with the type locality and as far as possible the name of the institution where the type is deposited; the others are with respect to the confines of our region. When several localities are given in the original reference, all have been included, but I regard the first-mentioned locality as the type locality. Fossils are not included in the list.

The general classification of fishes adopted in the list is according to Dr. L. S. Berg's classification of fishes, both recent and fossil, as published in *Trav. Inst. Zool. Acad. Sci. U.R.S.S. Leningrad* V, 1940. The species under their respective genera are alphabetically arranged.

Most of the references to genera and species have been checked with the original publications; in a few cases where this was not possible, reliance was placed on D. S. Jordan's *Genera of Fishes*, C. D. Sherborn's *Index Animalium*, S. A. Neave's *Nomenclator Zoologicus*, and F. E. Schulze, W. Kükenthal and K. Heider's *Nomenclator animalium generum ei subgererum*.

The limits of the area of which the ichthyfauna is listed here have been defined by Dr. B. N. Chopra in the Foreword.

I am indebted to Dr. B. Prashad, Fisheries Development Adviser to the Govt. of India, Dr. B. N. Chopra, Director, Zoological Survey of India, Dr. S. L. Hora, Director of Fisheries, Bengal, and Dr. D. R. Bhattacharya, Professor of Zoology, University of Allahabad, for kindly going through the manuscript and for their valuable suggestions and advice.

## SYSTEMATIC ACCOUNT.

## Class ELASMOBRANCHII.

## Sub-Class SELACHII.

## Order HEXANCHIFORMES (NOTIDANOIDEI).

## Family HEXANCHIDAE.

**Heptranchias** Rafinesque.

- 1810. *Heptranchias* Rafinesque, *Caratt. Animali Piante Sicilia*, p. 13. (Type, *Squalus cinereus* Gmelin, monotypic).
- 1841. *Heptranchus* Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 81. (Type, *Squalus cinereus* Gmelin).
- 1864. *Notorhynchus* Gill, *Proc. Acad. Nat. Sci. Philadelphia*, p. 149. (Type, *Notorhynchus maculatus* Ayres).

### **Heptranchias platycephalus** (Tenore).

1809. *Squalus platycephalus*, Tenore, *Mem. Acad. Pontor. Napoli* I, pp. 241, 258, pl. iv (type locality : Naples, Italy).  
 1876 *Notidanus indicus*, Day, *Fish. India*, p. 723, pl. clxxxix, fig. 4 (Madras; Cape Seas).  
 1889. *Notidanus indicus*, Day, *Faun. Brit. Ind. Fish.* I, p. 30, fig. 10 (Seas of India and South Africa to California).  
 1941. *Heptranchias cepedianus* (nec Peron), Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 6.

*Distribution*.—South Africa, India, Indian Ocean, China, Japan, Philippines.

### Order LAMNIFORMES (GALEOIDEI).

#### Suborder LAMONOIDEI (ISURIDA).

##### Family ORECTOLOBIDAE.

##### Genus **Chiloscyllium** Müller & Henle.

1837. *Chiloscyllium* Müller & Henle, *Arch. Naturg.* III, p. 395, Atypic. (Type, *Scyllium plagiosum* Bennett, *Syst. Beschr. Plagiostomen*, p. 17, 1841; designated by Gill, *Ann. Lyc. Nat. Hist. New York* VII, p. 42, 1862).  
 1838. *Hemiscyllium* Andrew Smith, *Proc. Zool. Soc. London*, p. 86. (Type, *Squalus ocellatus* Bonnaterre, monotypic).  
 1862. *Synchismus*, Gill, *Ann. Lyc. Nat. Hist. New York* VII, pp. 407, 408. (Type, *Squalus tuberculatus* Schneider, orthotypic).

##### **Chiloscyllium griseum** Müller & Henle.

1841. *Chiloscyllium griseum*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 19 (type locality : India, Japan).  
 1870. *Chiloscyllium indicum* var. *obscura*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 413 (Moluccas; Batavia; Vizagapatam).  
 1878. *Chiloscyllium indicum* (nec Gmelin), Day, *Fish. India*, p. 726, pl. clxxxviii, fig. 3 (India : Malay Archipelago).  
 1888. *Chiloscyllium indicum* var. *obscurum*, Ogilby, *Cat. Fish. Austral. Mus.* pt. 1, p. 8 (Malabar).  
 1889. *Chiloscyllium indicum* (nec Gmelin), Day, *Faun. Brit. Ind. Fish.* I, p. 34, fig. 14 (Seas of India to Malay Archipelago and beyond).  
 1908. *Chiloscyllium griseum*, Regan, *Proc. Zool. Soc.*, p. 360, pl. xi, fig. 1, pl. xiii, fig. 1 (young) (India; Malay Archipelago).  
 1913. *Chiloscyllium griseum*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 64 (South Africa; India; Japan).  
 1914. *Chiloscyllium griseum*, Raj, *Rec. Ind. Mus.* X, pp. 318, 319 (Madras).  
 1919. *Chiloscyllium griseum*, Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 222, pl. xix, fig. 5 (Port Canning, Bengal).  
 1928. *Chiloscyllium griseum* Fowler, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 100 (Bombay).  
 1929. *Chiloscyllium griseum*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 350 (Travancore).  
 1938. *Chiloscyllium griseum*, Aiyar & Nalini, *Proc. Indian Acad. Sci.* VII, Sec. B, p. 252 (Madras).  
 1941. *Hemiscyllium griseum*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 88.

*Distribution*.—South Africa, Red Sea, India, Malay Peninsula, China, Japan.

**Chiloscyllium indicus** (Gmelin).

1789. *Squalus indicus*, Gmelin, *Syst. Nat. Linn.* I, p. 1503 (type locality : Indian Ocean).
1878. *Chiloscyllium indicum* (part), Day, *Fish India*, p. 726, nec. pl. clxxxviii, fig. 3 (Seas of India to the Malay Archipelago and beyond).
1889. *Chiloscyllium indicum* (part), *Faun. Brit. Ind. Fish.* I, p. 34, nec fig. 14 (Seas of India to the Malay Archipelago and beyond).
- 1915-18. *Chiloscyllium indicum*, Pearson, *Ceylon Adminstr. Rep.*, p. F 12.
1919. *Chiloscyllium indicum* Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 222 (reference only).
1933. *Chiloscyllium indicum*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1933. *Chiloscyllium indicum*, Deraniyagala, *Ceylon Journ. Sci.*(c) V-p. 80 Ceylon,
1934. *Chiloscyllium indicum*, Deraniyagala, *Spol. Zeyl.* XVIII, p. 249 (Ceylon).
1941. *Hemiscyllium colax* (nec Meuschen) Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 89.

*Distribution*.—Cape of Good Hope, Red Sea, Arabian Sea, India, Burma, Ceylon, Malay Peninsula, Siam, Indo-China, Formosa, China, Malay Archipelago, Melanesia (Solomon Islands).

**Chiloscyllium ocellatum** (Bonnaterre).

1788. *Squalus ocellatus*, Bonnaterre, *Tableau Encyclop. Ichth.*, p. 8 (type locality La mer du Sud).
1941. *Hemiscyllium ocellatum* Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 81.

*Distribution*.—India ?, Malay Archipelago, N. W. Australia, Queensland, Melanesia. Fowler (*loc. cit.*) mentions that *Hemiscyllium ocellatum* (Bonnaterre) [= *Chiloscyllium ocellatum* (Bonnaterre)] has been recorded from India ; but this requires further confirmation. Whitley in the "Fishes of Australia" Part I, p. 74, 1940 writes : "This shark was originally discovered by the Naturalists of Cook's party near the present site of Cook town and I have read Solander's manuscript description of it in Latin as *Squalus ocellatus*."

**Chiloscyllium plagiosum** (Bennett).

1830. *Scyllium plagiosum*, Bennett, *Life of Raffles*, p. 694 (type locality : Sumatra).
1865. *Chiloscyllium plagiosum*, Day, *Fish Malabar*, p. 267 (Malabar).
1939. *Chiloscyllium plagiosum* Herre, *Rec. Ind. Mus.* XLI, p. 111 (Maung-magan, Burma).
1941. *Hemiscyllium plagiosum*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 88.

*Distribution*.—Cape Colony, Madagascar, India, Burma, Malay Peninsula, Siam, China, Japan and Malay Archipelago.

**Nebrius Rüppell**

1837. *Nebrius* Rüppell, *Neue Wirbelt Fische*, p. 62. (Type, *Nebrius concolor* Rüppell, monotypic).
1837. *Ginglymostoma* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 113. (Type, *Squalus cirratus* Gmelin ; designated by Hay, *U.S. Geol. Surv. Bull.* CLXXIX, p. 310, 1902.)
1913. *Nebrodes* Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 56. (Type, *Nebrius concolor* Rüppell.)

**Nebrius concolor** Rüppell.

1837. *Nebrius concolor*, Rüppell, *Neue Wirbelth Fische*, p. 62, pl. xvii, fig. 2 (type locality: Massaua, Red Sea).  
 1878. *Ginglymostoma concolor*, Day, *Fish, Ind. Suppl.*, p. 811, fig. (Red Sea through the Seas of India to Malay Archipelago).  
 1889. *Ginglymostoma concolor*, Day, *Faun. Brit. Ind. Fish. I*, p. 32, fig. 12 (Red Sea through the Seas of India to Malay Archipelago).  
 1912-13. *Ginglymostoma concolor*, Southwell, *Ceylon Administr. Rep.*, p. E49.  
 1913. *Nebrodes concolor*, Garman, *Mem. Mus. Comp. Zool. Harvard. XXXVI.*, p. 57 (Red Sea to India).

*Distribution*.—Madagascar, Red Sea, India, Ceylon, Malay Peninsula, Java, Philippines, Solomon Islands.

**Nebrius ferrugineum** (Lesson).

1830. *Scyllium ferrugineum*, Lesson, *Voy. Coquille, Zool. II*, pt. 1, fig. 95 (type locality: Port Praslin; Offack Bay, Waigiu).  
 1870. *Ginglymostoma mülleri*, Günther, *Cat. Fish. Brit. Mus. VIII*, p. 408 (type locality: India).  
 1878. *Ginglymostoma mülleri*, Day, *Fish India*, p. 725 (India).  
 1889. *Ginglymostoma mülleri*, Day, *Faun. Brit. Ind. Fish. I*, p. 33 (Red Sea; Indian Ocean).  
 1912-13. *Ginglymostoma mülleri*, Pearson, *Ceylon Administr. Rep.*, p. E 7.  
 1913. *Ginglymostoma ferrugineum*, Garman, *Mem. Mus. Comp. Zool. XXXVI.*, p. 56 (India; East Indies).  
 1933. *Ginglymostoma ferrugineum*, Deraniyagala, *Ceylon, Journ. Sci. (c) V*, p. 80.  
 1941. *Nebrius ferrugineum*, Fowler, *Bull. U.S. Nat. Mus. (100) XIII*, p. 69.  
 1942. *Nebrius ferrugineus*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 558 (Bombay).

*Distribution*.—Madagascar, Red Sea, India, Ceylon, Malay Peninsula, Indo-China, Malay Archipelago, Melanesia, Polynesia.

**Rhincodon** Smith.

1829. *Rhincodon* Smith, *Zool. Journ. IV*, p. 443. (Type, *Rhincodon typus* Smith monotypic.)  
 1839. *Rhincodon* Swainson, *Nat. Hist. Animals*, pp. 191, 314, as *Rhiniodon*, p. 317. (Type, *Rhincodon typus* Smith.)  
 1841. *Rhincodon* Müller & Henle, *Syst. Beschr. Plagiostomen* p. 77. (Type, *Rhincodon typus* Smith.)

**Rhincodon typus** Smith.

1829. *Rhincodon typus*, Smith, *Zool. Journ. IV*, p. 443 (type locality: Table Bay, South Africa; according to Bertin<sup>1</sup> the holotype<sup>2</sup> is in the Paris Museum).  
 1888. *Rhinodon typicus*, Day, *Fish India Suppl.*, p. 811 (Ceylon).  
 1889. *Rhinodon typicus*, Day, *Faun. Brit. Ind. Fish. I*, p. 29 (Ceylon).  
 1908. *Rhinodon typicus*, Regan, *Proc. Zool. Soc. London.* p. 353. (Ceylon; Seychelles).  
 1908. *Rhinodon typicus*, Lloyd, *Rec. Ind. Mus. II*, p. 306 (Bay of Bengal).  
 1912-13. *Rhinodon typicus*, Southwell, *Ceylon Administr. Rep.*, pp. E 44, E 49.  
 1929. *Rhinodon typicus*, Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 351 (Travancore).

*Distribution*.—South Africa, Seychelles, India, Ceylon, Siam, Japan, Java, Philippines, California, Panama, Chile and the tropical Atlantic.

<sup>1</sup> Bertin, P. L., *Bull. Mus. Nat. Paris (2) XI*, 1939.

<sup>2</sup> Frizzell, D. L. "Terminology of Types" *Amer. Midl. Nat. XIV*, pp. 637-668 (1933).

Genus **Stegostoma** Müller & Henle.

1837. *Stegostoma* Müller & Henle, *Sitz. Ber. Akad. Preuss Wiss. Berlin*, p. 112.  
(Type, *Squalus fasciatus* Hermann, orthotypic.)

**Stegostoma varium** (Seba).

1758. *Squalus varius*, Seba, *Thesauri III*, pl. xxxiv, fig. 1, p. 105 (type locality not given).  
 1847. *Stegostoma carinatum*, Blyth, *Journ. As. Soc. Bengal XVI*, p. 725, pl. xxv, fig. 1 (type locality : India).  
 1870. *Stegostoma tigrinum*, Günther, *Cat. Fish. Brit. Mus. VIII*, p. 409 (India, Zanzibar, Ceylon, Formosa).  
 1878. *Stegostoma tigrinum*, Day, *Fish. India*, p. 725, pl. clxxxvii, fig. 4 (East Africa ; Red Sea ; India ; Malay Archipelago).  
 1889. *Stegostoma tigrinum*, Day, *Faun. Brit. Ind. Fish. I*, p. 33, fig. 13 (Madras).  
 1908. *Stegostoma tigrinum*, Regan, *Proc. Zool. Soc. London*, p. 363 (Zanzibar, India, Ceylon, Sarawak, Formosa, North West Australia).  
 1912-13. *Stegostoma tigrinum*, Southwell, *Ceylon Administr. Rep.*, pp. E 41, E 49.  
 1913. *Stegostoma varium* Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 59 (India and East Indies to Africa).  
 1928. *Stegostoma tigrinum*, Fowler, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 100 (Bombay).  
 1929. *Stegostoma tigrinum*, Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 350 (Travancore).  
 1933. *Stegostoma tigrinum*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Stegostoma fasciatum*, Fowler, *Bull. U.S. Nat. Mus. (100) XIII*, p. 100.

*Distribution*.—Zanzibar, East Africa, Madagascar, Red Sea, India, Ceylon, Malay Peninsula, Siam, Indo China, China, Formosa, Japan, Malay Archipelago, Australia.

## Family ODONTASPIDAE.

Genus **Carcharias** Rafinesque.

1810. *Carcharias* Rafinesque, *Caratt. Animali Pianete Sicilia*, p. 10. (Type, *Carcharias taurus* Rafinesque, monotypic.)  
 1835. *Odontaspis Agassiz*, *Poiss. Foss. III*, p. 55 (Type, *Squalus ferox* Rissö, monotypic).

**Carcharias tricuspidatus** Day.

1878. *Carcharias tricuspidatus*, Day, *Fish India*, p. 713. pl. clxxxvi, fig. 1 (type locality ; Karachi and Baluchistan).  
 1888. *Odontaspis tricuspidatus*, Day, *Fish India Supl.*, p. 810 (Sind).  
 1889. *Odontaspis tricuspidatus*, Day, *Faun. Brit. Ind. Fish. I*, p. 27, fig. 8 ( Seas of Sind).  
 1913. *Carcharias tricuspidatus*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 26 (Cape of Good Hope ; India ; South Australia).  
 1942. *Carcharias tricuspidatus*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 558 (Bombay).

*Distribution*.—South Africa, India, Indo-China, Philippines. Whitley<sup>1</sup> (1940, p.136) gives the distribution of *Carcharias tricuspidatus* as : “ I suspect that records of this shark from Southern Australia and New South Wales may be really referable to *arenarius*. No specimens have been preserved and the published accounts leave much to be desired. India etc., N.S.W. ? S. Australia ? W. Australia ? Queensland ??.”

<sup>1</sup> Whitley, G. P., *The Fishes of Australia*, pt. 1 (1940).

## Family LAMNIDAE.

Genus **Alopias** Rafinesque.

1768. *Vulpesula* Valmont, *Dict. Hist. Nat. Paris* III, p. 740. (Type, *Squalus vulpes* Gmelin; inadmissible, according to Opinion<sup>1</sup> 89 of the International Commission of Zoological Nomenclature.)
1810. *Alopias* Rafinesque, *Caratt. Animali Piane Sicilia*, p. 12. (Type, *Alopias macrourus* Rafinesque, monotypic.)
1937. *Alopecias* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 114. (Type, *Alopias macrourus* Rafinesque.)
1838. *Alopius* Swainson, *Nat. Hist. Animals*, I, p. 91. (Type, *Alopias macrourus* Rafinesque.)

**Alopias vulpinus** (Bonnaterre).

1788. *Squalus vulpinus*, Bonnaterre, *Tabl. Ichth.*, pl. lxxxv, fig. 349 (type locality: Mediterranean).
1888. *Alopias vulpes*, Day, *Fish. Ind. Suppl.*, p. 810 (Ceylon).
1889. *Alopias vulpes*, Day, *Faun. Brit. Ind. Fish.* I, p. 28, fig. 9 (Ceylon).

*Distribution*.—S. Africa, Natal, Arabia, Ceylon, China, Japan, Korea, Philippines, California and Chile.

Genus **Isurus** Rafinesque.

1810. *Isurus* Rafinesque, *Caratt. Animali Piane Sicilia*, p. 11. (Type, *Isurus oxyrinchus* Rafinesque, monotypic.)
1817. *Lamna* Cuvier, *Régne Animal*, II, ed. 1, p. 126. (Type, *Lamna cornubica* Cuvier = *Squalus cornubicus* Gmelin, designated by Gill, *Ann. Lyc. Nat. Hist. New York* VIII, p. 32, 1862.)
1836. *Oxyrhina* Agassiz, *Poiss. Foss.* III, pp. 87, 276 (Type, *Lamna oxyrhina* Valenciennes, monotypic.)

**Isurus glauca** (Müller & Henle).

1841. *Oxyrhina glauca*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 69, pl. xxix (type locality: Java).
1878. *Lamna spallanzanii*, Day, *Fish. India*, p. 722, pl. clxxvi, fig. 2 (Madras).
1889. *Lamna spallanzanii*, Day, *Faun. Brit. Ind. Fish.* I, p. 26, fig. 7 (Red Sea; Indian Ocean; Atlantic; Mediterranean).
1933. *Lamna spallanzani*, Deraniyagala, *Ceylon Journ. Soil* (c)V, p. 80 (Ceylon).

*Distribution*.—Cape of Good Hope, Red Sea, Arabia, India, Ceylon, Indo-China, Japan, Chile, St. Helena in the Atlantic.

**Isurus guntheri** (Murray).

1884. *Lamna guntheri*, Murray, *Ann. Mag. Nat. Hist.* (5) XIII, p. 349 (type locality: Karachi, India).
1888. *Lamna guntheri*, Day, *Fish. India Suppl.*, p. 810.
1889. *Lamna guntheri*, Day, *Faun. Brit. Ind. Fish.* I, p. 26 (Karachi).
1913. *Isurus guntheri*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 39 (Karachi).
1941. *Isurus guntheri*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 106.

*Distribution*.—India, Philippines.

## Suborder SCYLIORHINOIDEI (CARCHARINIDA).

## Family SCYLIORHINIDAE.

Genus **Scyliorhinus** Blainville.

1769. *Catulus* (nec Kniphof, 1759) Valmont, *Dict. Hist. Nat. Paris* X, p. 114. (Type, *Catulus vulgaris* Valmont = *Squalus canicula* Linn., inadmissible, according to opinion 89 of the International Commission of Zoological Nomenclature).

<sup>1</sup> Schenk, E. T. and Mc Masters, J. H. *Procedure in Taxonomy* (1935).

1816. *Scyliorhinus* Blainville, *Bull. Soc. Philom. Paris.* p.121. (Type, *Squalus canicula* Linn., designated by Gill, *Ann. Lyceum Nat. Hist. New York* VII, p. 407, 1862.)
1817. *Scyllium* (Cuvier, *Regne Animal* II, p. 124. (Type, *Squalus canicula* Linn., designated by Jordan, *Gen. Fish.*, p. 97, 1917.)
1943. *Scylliodus* Agassiz, *Poiss. Foss.* III, p. 377. (Type, *Scylliodus antiquus* Agassiz, monotypic.)
1843. *Thyellina* Agassiz, *Poiss. Foss.*, III, p. 378. (Type, *Thyellina angusta* Agassiz, monotypic) (Fossil.)
1862. *Halaclurus* Gill, *Ann. Lyc. Nat. Hist. New York* VII, p. 407. (Type *Scyllium bürgeri* Müller & Henle, orthotypic.)

### **Scyliorhinus (Scyliorhinus) capensis** (Müller & Henle).

1837. *Scyllium capense*, Smith, *Proc. Zool. Soc. London*, p. 85 (type locality : Cape of Good Hope ; name only).
1841. *Scyllium capense*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 11 (Cape of Good Hope).
1878. *Scyllium capense*, Day, *Fish. India*, p. 724, pl. exc, fig. 1 (India).
1889. *Scyllium capense*, Day, *Faun. Brit. Ind. Fish.* I, p. 31 (India).
1941. *Scyliorhinus capensis*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 35.

*Distribution*.—South Africa, Natal, India, Philippines.

### **Scyliorhinus (Halaclurus) bürgeri** (Müller & Henle).

1841. *Scyllium bürgeri*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 8, pl. ii (type locality : Japan).
1865. *Scyllium bürgeri*, Kner, *Reise Novara Fische*, p. 412 (Madras).
1941. *Halaclurus bürgeri*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 44.

*Distribution*.—India, China, Japan, Malay Archipelago.

### **Scyliorhinus (Halaclurus) hispidum** (Alcock).

1891. *Scyllium hispidum*, Alcock, *Ann. Mag. Nat. Hist.* (6) VIII, p. 21 (type locality : Andaman Islands, 188 to 200 fms ; type is in the Zoological Survey of India).
1894. *Scyllium hispidum*, Alcock, *Ill. Zool. Investig. Fish.*, pl. viii, fig. 3, 3a (Andaman Islands).
1908. *Scyliorhinus hispidus*, Regan, *Ann. Mag. Nat. Hist.* (8) I, p. 460 (Indian Ocean).
1913. *Halaclurus hispidus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 85 (Andaman Sea).
1941. *Halaclurus hispidus*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 47.
1941. *Scyllium hispidum*, Herre, *Mem. Ind. Mus.* XIII, p. 332 (Andamans).

*Distribution*.—East Africa, Andaman Islands, Philippines.

### **Scyliorhinus (Halaclurus) indicus** Brauer.

1906. *Scyliorhinus indicus*, Brauer, "Valdivia" *Tiefsee-Fische* XV, p.8, pl. xiv, fig. 1 (type locality : 2°58' N., 47°6' 1" E., in 1289 meters, off East African Coast ; 13°1' N., 47°10' 19" E., in 1840 meters, Gulf of Aden)..
1909. *Scyliorhinus indicus*, Lloyd, *Mem. Ind. Mus.* II, p. 139 (Gulf of Oman).
1939. *Scyliorhinus (Halaclurus) indicus*, Norman, *Sci. Rep. John Murray Exped.* VII, p. 10 (off East African Coast ; Gulf of Aden ; Gulf of Oman).
1941. *Pentachus indicus*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 60.

*Distribution*.—Off East African Coast, Gulf of Aden, Gulf of Oman.

**Scyliorhinus (Halaelurus) quagga** (Alcock).

1899. *Scylium quagga*, Alcock, *Cat. Ind. Deep Sea Fish.*, p. 17 (type locality : Off Malabar Coast, 102 fms., type is in the Zoological Survey of India).  
 1900. *Scylium quagga*, Alcock, *Ill. Zool. Investig. Fish.*, pl. xxvii, figs. 1, 1a (off Malabar Coast).  
 1908. *Scyliorhinus quagga*, Regan, *Ann. Mag. Nat. Hist.* (7) I, p. 461 (Malabar).  
 1913. *Halaelurus quagga*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 84 (Malabar).  
 1941. *Halaelurus quagga*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 46.

*Distribution*.—India, Philippines.

**Genus Atelomycterus Garman.**

1913. *Atelomycterus* Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 100.  
 (Type *Scylium marmoratum* Bennett, orthotypic.)

**Atelomycterus marmoratum** (Bennett).

1830. *Scylium marmoratum*, Bennett, *Life of Raffles*, p. 693 (type locality Sumatra).  
 1830-32. *Scylium maculatum* (nec Schneider), Gray, *Ill. Ind. Zool. Hardwicke* I, pl. xcviii, fig. 1 (India).  
 1870. *Scylium marmoratum*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 400 (Singapore : East Indies ; India).  
 1878. *Scylium marmoratum*, Day, *Fish. India*, p. 724, pl. cxc, fig. 2 (the figure is taken from Hardwicke's type of *Scylium maculatum*, 18 inches in length).  
 1889. *Scylium marmoratum*, Day, *Faun. Brit. Ind. Fish.* I, p. 31, fig. 11 (Seas of India to the Malay Archipelago).  
 1908. *Scyliorhinus marmoratus*, Regan, *Ann. Mag. Nat. Hist.* (8) I, p. 462 (India; Malay Archipelago).  
 1913. *Atelomycterus marmoratus*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 100 (India ; Malay Archipelago).  
 1941. *Atelomycterus marmoratus*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 62, fig. 6.

*Distribution*.—Ceylon, India, Malay Peninsula, Singapore, Siam, Indo-China, China, Java, Sumatra, Philippines, Amboina.

**Family CARCHARHINIDAE.****Genus Physodon Müller & Henle.**

1841. *Physodon* Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 30. [Type, *Carcharias (Physodon) mülleri* (val.) M. H., monotypic].

**Physodon mülleri** Müller & Henle.

1841. *Carcharias (Physodon) mülleri*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 30, pl. xix, fig. 1 (type locality : Bengal ; according to Bertin (*vide supra*, p. 9) holotype figure is in the Paris Museum).  
 1870. *Carcharias mülleri*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 360 (Bengal).  
 1878. *Carcharias mülleri*, Day, *Fish. India*, p. 713 (Bengal).  
 1889. *Carcharias mülleri*, Day, *Faun. Brit. Ind. Fish.* I, p. 11 (Bengal).  
 1922. *Physodon mülleri*, Hora, *Mem. Ind. Mus.* V, p. 763 (Chilka Lake).  
 1941. *Physodon mülleri*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 129.

*Distribution*.—India, China, Philippines. According to Whitley (*vide supra*, p. 10) *Physodon mülleri* is not found in Australia and he recommends that this species should be dropped from the list of Australian Sharks in favour of *Protozygaena taylori* Ogilby.

Genus **Scoliodon** Müller & Henle.

1837. *Scoliodon* Müller & Henle, *Mag. Nat. Hist.* II, p. 114 Atypic. [Type, *Carcharias (Scoliodon) laticaudus* Müller & Henle; designated by Gill, *Ann. Lyc. Nat. Hist. New York* VIII, p. 35, 1862.]
1915. *Rhizoprion* (nec Jourdain 1861) Ogilby, *Mem. Queensland Mus.* III, p. 132. [Type, *Carcharias (Scoliodon) crenidens* Klunzinger, orthotypic; inadmissible as homonym of *Rhizoprion* Jourdain, according to the rules under article 34 of the International Commission of Zoological Nomenclature.]

**Scoliodon palasorrah** (Cuvier).

1829. *Carcharias palasorrah*, Cuvier, *Règne Animal*, ed. 2, II, p. 388 (on *Pala-sorrah* Russell, *Fish. Coromandel* I, p. 9 pl. xiv, 1803; type locality: Vizagapatam, Madras).
1841. *Carcharias (Scoliodon) acutus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 29 (Red Sea; India; Java).
1851. *Squalus (Scoliodon) acutus*, Gray, *List Fish. Brit. Mus.*, p. 41 (China and Bengal).
1870. *Carcharias acutus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 358 (Cape of Good Hope; East Indies; Penang; Singapore; Vizagapatam; Japan).
1878. *Carcharias acutus*, Day, *Fish. India*, p. 712, pl. clxxxiv, fig. 3 (Madras).
1889. *Carcharias acutus*, Day, *Faun. Brit. Ind. Fish.* I, p. 10 (India).
1913. *Scoliodon palasorrah*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 111 (India; East Indies).
1926. *Scoliodon acutus*, Fowler, *Journ. Bom. Nat. Hist. Soc.* XXXI, p. 2 (Bombay).
1927. *Scoliodon acutus*, Fowler, *Journ. Bom. Nat. Hist. Soc.* XXXII, p. 253 (Bombay).
1928. *Scoliodon palasorrah*, Thillayampalam, *Ind. Zool. Mem.* II, p. 8 (Madras).
1933. *Scoliodon palasorrah* Deraniyagala, *Ceylon Journ. Sci.* (o) V, p. 80 (Ceylon).
1933. *Carcharias acutus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1940. *Scoliodon palasorrah*, Mahadevan, *Proc. Ind. Acad. Sci.* XI, Sec. B, p. 19 (Madras).

*Distribution*.—South Africa, Red Sea, Arabia, India, Ceylon, Malay Peninsula, Siam, Indo-China, China, Japan, Java, Philippines.

**Scoliodon sorrakowah** (Cuvier).

1829. *Carcharias sorrakowah*, Cuvier, *Règne Animal*, ed. 2, II, p. 388 (on *Sorrakowah* Russell, *Fish. Coromandel* I, p. 9, pl. xv, 1803 (type locality: Vizagapatam).
1841. *Carcharias (Scoliodon) laticaudus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 28, pl. viii (type locality: India; according to Bertin (*vide supra*, p. 9) the paratypes from Malabar and Bombay are in the Baris Museum).
1860. *Squalus (Scoliodon) laticaudus*, Blyth, *Journ. As. Soc. Bengal* XXXIX, p. 35 (Calcutta).
1865. *Scoliodon laticaudus*, Kner, *Reise Novara Fische*, p. 414 (Madras).
1870. *Carcharias laticaudus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 358 (Bengal; Batavia; China; Amoy; Japan).
1878. *Carcharias laticaudus*, Day, *Fish. India*, p. 712, pl. clxxxviii, fig. 1 (Seas of India to the Malay Archipelago and beyond).
1888. *Carcharias laticaudus*, Ogilby, *Cat. Fish. Austral. Mus.* pt. I, p. 1 (Bombay).
1889. *Carcharias laticaudus*, Day, *Faun. Brit. Ind. Fish.* I, p. 9 (Seas of India to the Malay Archipelago and beyond).
1907. *Carcharias laticaudatus*, Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).
- 1912-13. *Carcharias laticaudus*, Pearson, *Ceylon Administr. Rep.*, p. E 6.
1928. *Scoliodon sorrakowah*, Thillayampalam, *Ind. Zool. Mem.* II, p. 8 (Tuticorin; Ennur).
1929. *Carcharias laticaudatus*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 350 (Travancore).

1933. *Carcharias laticaudus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1940. *Scoliodon sorrakowah*, Mahadevan, *Proc. Ind. Acad. Sci.*, XI, Sec. B, p. 7 (Madras).  
 1941. *Scoliodon sorrakowah*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 140.

*Distribution*.—Mekran, India, Ceylon, Burma, Malay Peninsula, Siam, Indo-China, Japan, Java, Philippines.

### **Scoliodon walbeehmi Bleeker.**

1856. *Carcharias (Scoliodon) walbeehmi*, Bleeker, *Nat. Tijds. Nederland. Ind.* X, p. 353 (type locality : Rio, Bintang Island).  
 1878. *Carcharias walbeehmi*, Day, *Fish. India*, p. 712, pl. clxxxv, fig. 2 (Malabar).  
 1889. *Carcharias walbeehmi*, Day, *Faun. Brit. Ind. Fish.* I, p. 10 (India ; Malay Archipelago ; Japan).  
 1912-13. *Carcharias walbeehmi*, Southwell, *Ceylon Adminstr. Rep.*, p. E 49.  
 1913. *Scoliodon walbeehmi*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 112 (Singapore ; Colombo ; Penang).  
 1919. *Scoliodon walbeehmi*, Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 223, pl. xvii, figs. 1, 2, 4, 7, 8 (Ceylon).  
 1928. *Scoliodon walbeehmi*, Thillayampalam, *Ind. Zool. Mem.* II, p. 8 (Tuticorin ; Ennur).  
 1929. *Carcharias walbeehmi*, Pillay, *Journ. mBobay Nat. Hist. Soc.* XXXIII, p. 350 (Travancore).  
 1940. *Scoliodon walbeehmi*, Mahadevan, *Proc. Ind. Acad. Sci.* XI, Sec. B, p. 6 (Madras).  
 1941. *Scoliodon walbeehmi*, Herre, *Mem. Ind. Mus.* XIII, p. 332 (Andamans).

*Distribution*.—Natal, India, Ceylon, Malay Peninsula, Indo-China, China, Formosa, Japan, Java, Philippines.

### **Genus Aprionodon Gill.**

1841. *Aprion* (nec Valenciennes, 1830) Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 31. [Type, *Carcharias (Aprion) brevipinna* Müller & Henle ; inadmissible.]  
 1862. *Aprionodon* Gill, *Ann. Lyc. Nat. Hist. New York* VII, pp. 400, 401, 411. [Type, *Carcharias (Aprion) isodon* Müller & Henle, orthotypic.]

### **Aprionodon acutidens (Rüppell).**

1837. *Carcharias acutidens*, Rüppell, *Neue Wirbelth. Fische*, p. 65, pl. xviii, fig. 3 (type locality : Djedda, Red Sea).  
 1878. *Carcharias acutidens*, Day, *Fish. India*, p. 713, pl. clxxxix, fig. 1 (Red Sea ; Sind ; Indian Ocean).  
 1889. *Carcharias acutidens*, Day, *Faun. Brit. Ind. Fish.* I, p. 11 (Red Sea ; Indian Ocean).  
 1941. *Aprionodon acutidens*, Fowler, *Bull. U.S. Nat. Mus.* (100) xiii, p. 141.

*Distribution*.—Seychelles, Red Sea, Arabia, India, Indo-China, Micronesia.

### **Genus Hypoprion Müller & Henle.**

1841. *Hypoprion* Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 34. [Type, *Carcharias (Hypoprion) macloti* Müller & Henle, designated by Jordan & Gilbert, *Bull. U.S. Nat. Mus.* XVI, p. 61, 1883.]

### **Hypoprion hemiodon (Müller & Henle.)**

1841. *Carcharias (Hypoprion) hemiodon*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 35, pl. xix, fig. 2 (teeth) (type locality : Pondicherry). According to Bertin (*vide supra*, p. 9), the holotype *measure et figure* is in the Paris Museum.

1851. *Squalus (Hypoprion) hemiodon*, Gray, *List Fish. Brit. Mus.*, p. 43 (Pondicherry).  
 1870. *Carcharias hemiodon*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 362 (Calcutta, India).  
 1878. *Carcharias hemiodon*, Day, *Fish. India*, p. 714 (India, Hooghly at Calcutta).  
 1889. *Carcharias hemiodon*, Day, *Faun. Brit. Ind. Fish.* I, p. 12 (Hooghly at Calcutta).  
 1913. *Hypoprion hemiodon*, German, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 122 (Pondicherry; Calcutta).  
 1941. *Hypoprion hemiodon* Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 146.

*Distribution*.—Asia, Arabia, India, Indo-China, Philippines. According to Whitley (*vide supra*, p. 10) *Hypoprion hemiodon* might well be expunged from the Australian list.

#### **Hypoprion macloti Müller & Henle.**

1841. *Carcharias (Hypoprion) macloti*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 34, pl. x (type locality: New Guinea).  
 1870. *Carcharias macloti*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 362 (Indian Ocean; New Guinea).  
 1878. *Carcharias macloti*, Day, *Fish. India*, p. 713, pl. clxxxviii, fig. 2 (Malabar).  
 1889. *Carcharias macloti*, Day, *Faun. Brit. Ind. Fish.* I, p. 12 (Seas of India to New Guinea).  
 1913. *Hypoprion macloti*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 121 (New Guinea; Indian Ocean).  
 1933. *Carcharias macloti*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 80 (Ceylon).

*Distribution*.—Mekran, India, Ceylon, Malay Peninsula, Philippines, Melanesia. Whitley (*vide supra*, p. 10) includes, with a querry, New South Wales as within the range of distribution of *Hypoprion macloti*.

#### **Genus Carcharhinus<sup>1</sup> Blainville.**

1816. *Carcharhinus* Blainville, *Bull. Soc. Philom.*, p. 121; *Journ. Phys.* LXXX-III, p. 264. (Type, *Squalus commersonii* Blainville, logotypic.)  
 1862. *Eulamia* Gill, *Ann. Lyc. Nat. Hist. New York* VII, p. 401. (Type, *Carcharias lamia* Risso ≠ *Squalus commersonii* Blainville.)  
 1862. *Platypodon* Gill, *Ann. Lyc. Nat. Hist. New York* VII, p. 401. [Type, *Carcharius (Prionodon) menisorrah* Müller & Henle, orthotypic.]  
 1862. *Isogomphodon* Gill, *Ann. Lyc. Nat. Hist. New York* VII, p. 401. (Type, *Carcharias oxyrhynchus* Müller & Henle, orthotypic.)

#### **Carcharhinus bleekeri Duméril.**

1865. *Carcharias (Prionodon) bleekeri*, Duméril, *Hist. Nat. Poiss.* I, p. 367 (type locality: Pondicherry; the holotype is in the Paris Museum).  
 1878. *Carcharias bleekeri*, Day, *Fish. India*, p. 715 (East coast of Africa; Seas of India).  
 1889. *Carcharias bleekeri*, Day, *Faun. Brit. Ind. Fish.* I, p. 15 (East Coast of Africa: Indian Seas).  
 1939. *Carcharhinus spallanzani* (nec Lesueur), Bertin, *Bull. Mus. Nat. Hist.* (2) XI, p. 73.  
 1941. *Eulamia spallanzani* (nec Lesueur), Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 163.

*Distribution*.—Seychelles, Red Sea, India.

#### **Carcharhinus dussumieri (Müller & Henle).**

1841. *Carcharias (Prionodon) dussumieri*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 47, pl. xix, fig. 8 (type locality: China; Bombay; Pondicherry; the paratotypes from Bombay and Pondicherry are in the Paris Museum).

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<sup>1</sup> Sometimes spelt *Carcharinus*. The above is the original form.

1878. *Carcharias dussumieri*, Day, *Fish. India*, p. 714, pl. clxxxvii, fig. 2 (India ; Malabar ; Malay Archipelago).  
 1889. *Carcharias dussumieri*, Day, *Faun. Brit. Ind. Fish.* I, p. 13 (Seas of India to the Malay Archipelago).  
 1912-13. *Carcharias dussumieri*, Southwell, *Ceylon Adminstr. Rep.*, p. E 49.  
 1913. *Carcharhinus dussumieri*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 137 (India ; East Indies ; China).  
 1933. *Carcharias dussumieri*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1940. *Carcharias dussumieri*, Mahadevan, *Proc. Ind. Acad. Sci.* XI, Sec. B, p. 6 (Madras).  
 1941. *Eulamia dussumieri*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 164.

*Distribution*.—East Africa, Arabian Sea, India, Ceylon, Malay Peninsula, Indo-China, Java, Philippines.

### ***Carcharhinus ellioti* (Day).**

1878. *Carcharias ellioti*, Day, *Fish. India*, p. 716, pl. clxxxix, fig. 2 (type locality : Kurrachee).  
 1883. *Carcharias murrayi*, Günther, *Ann. Mag. Nat. Hist.* (5) XI, p. 137 (type locality : Kurrachee).  
 1888. *Carcharias murrayi*, Day, *Fish. India Suppl.*, p. 808 (Kurrachee).  
 1889. *Carcharias murrayi*, Day, *Faun. Brit. Ind. Fish.* I, p. 16 (Kurrachee).  
 1913. *Carcharhinus ellioti*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 142 (India).  
 1933. *Carcharias ellioti*, Deraniyagala, *Ceylon, Journ. Sci.* (c) V, p. 79 (Ceylon).  
 1941. *Eulamia ellioti*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 175.

*Distribution*.—Arabia, India, Ceylon, Philippines.

### ***Carcharhinus gangeticus* (Müller & Henle).**

1822. ? *Squalus carcharias* (nec Linn.), Hamilton, *Fish. Ganges*, p. 4 (Ganges R.).  
 1841. *Carcharias (Prionodon) gangeticus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 39, pl. xiii (type locality : 60 hours above the Sea at Hooghly ; the paratype from the Ganges is in the Paris Museum).  
 1851. *Squalus (Carcharhinus) gangeticus*, Gray, *List Fish Brit. Mus.*, p. 45 (Calcutta).  
 1860. *Squalus (Carcharhinus) gangeticus*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 36 (Calcutta).  
 1870. *Carcharias gangeticus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 367 (Calcutta ; Viti Levu ; Fiji).  
 1878. *Carcharias gangeticus*, Day, *Fish. India*, p. 715, pl. clxxxvii, fig. 1 (India Japan ; the example figured, 18 inches long, was from Bombay).  
 1889. *Carcharias gangeticus*, Day, *Faun. Brit. Ind. Fish.* I, p. 23 (Hooghly at Calcutta ; the Burmese Coasts).  
 1907. *Carcharias gangeticus*, Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).  
 1910. *Carcharias gangeticus*, De, *Rep. Fish. Eastern Bengal and Assam*, p. 17 (Goalundo).  
 1913. *Carcharhinus gangeticus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 139 (India ; Fiji ; Japan).  
 1918. *Carcharhinus gangeticus*, Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 79 (Bengal).  
 1922. *Carcharhinus gangeticus*, Hora, *Mem. Ind. Mus.* V, p. 763 (Chilka Lake).  
 1933. *Carcharias gangeticus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1939. *Carcharhinus gangeticus*, Bertin, *Bull. Mus. Nat. Hist.* (2) XI, p. 71.  
 1940. *Platyptodon gangeticus* Whitley, *Fish. Australia*, pt. I, p. 105.  
 1941. *Eulamia gangetica*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 148.

*Distribution.* Arabia, India, Ceylon, Burma, Indo-China, China, Japan, Java, Philippines, Fiji. Whitley (*vide supra*, p. 10) writes : " This shark, which is much feared in the river Ganges, India, has been recorded doubtfully from North-Western Australia, New South Wales and South Australia. It is found in India and the East Indies where it attains a length of about nine feet, but I think all the Australian records are open to question. Perhaps the latter were based on whaler sharks from which *gangeticus* differs in having the upper teeth not so deeply notched on their outer edges. I have seen specimens of *Notogaleus australis*, the School Shark, labelled *gangeticus* in one Museum. I therefore drop *gangeticus* from the Australian list "

### Carcharhinus lamia (Blainville).

- 1820. *Squalus lamia*, Blainville, *Faune Francaise Poiss.*, p. 88, pl. xxii, fig. C (type locality : " Nos mers ").
- 1851. *Squalus (Carcharinus) milberti* (nec Müller & Henle), Gray, *List Fish Brit. Mus.*, p. 45 (India).
- 1860. *Squalus (Carcharinus) milberti* (nec Müller & Henle), Blyth, *Journ. As. Soc. Bengal* XXIX, p. 35 (Calcutta).
- 1865. *Prionodon lamia*, Day, *Fish. Malabar*, p. 270 (Malabar).
- 1865. *Carcharias (Prionodon) lamia*, Duméril, *Hist. Nat. Elasmobr.* I, p. 356 (Malabar).
- 1896. *Carcharias (Prionodon) siamensis*, Steindachner, *Ann. Hofmus. Wien* XI, p. 229 (type locality : Mouth of Irrawaddy, Rangoon).
- 1941. *Eulamia lamia*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 169.

*Distribution.*—Arabia, India, Burma, China, Malay Archipelago, Melanesia, also in California and Atlantic Ocean. Whitley (*vide supra*, p. 10) writes : " Old records of *Carcharhinus lamia*, *melanopterus*, *maou*, etc. from New Zealand may perhaps best be disposed of by being regarded as applying to Whaler Sharks."

### Carcharhinus limbatus (Müller & Henle).

- 1841. *Carcharias (Prionodon) limbatus*, Müller & Henle, *Syst. Besch. Plagiotomen*, p. 49, pl. xix, fig. 9 (type locality ; Martinique ; according to Bertin the paratype is in the Paris Museum).
- 1878. *Carcharias limbatus*, Day, *Fish. India*, p. 716, nec pl. clxxxiv, fig. 2 (the example figured, 16-8 inches long, was from Malabar Coast).
- 1889. *Carcharias limbatus*, Day, *Faun. Brit. Ind. Fish.* p. 17 (Coasts of India).
- 1933. *Carcharias limbatus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
- 1941. *Eulamia limbata*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 150.
- 1942. *Carcharinus limbatus*, Sarangdhar, *Ind. Journ. Med. Res.* XXX, p. 558 (Bombay).

*Distribution.*—Natal, Seychelles, Red Sea, Arabia, India, Cochin China, Polynesia, and also in tropical Atlantic.

### Carcharhinus melanopterus (Q. G.).

- 1824. *Carcharias melanopterus*, Quoy & Gaimard, *Voy. Uranie, Zool.* pts. 5-6, p. 194, pl. xlii, figs. 1-2 [type locality : Ile Vaigion (Oceania) ; the holotype and the paratypes from Ile Vaigion, Nouvelle Guinée and Ile Vaniooro respectively are in the Paris Museum].

1860. *Squalus (Carcharinus) melanopterus*, Blyth, *Journ. As. Soc. Bengal*, XXIX, p. 36 (Calcutta).
1865. *Prionodon melanopterus*, Day, *Fish. Malabar*, p. 269 (Malabar).
1878. *Carcharias melanopterus*, Day, *Fish. India*, p. 715, pl. clxxxv, fig. 3 (the example figured, a female, 42 inches long was from the Andamans).
1889. *Carcharias melanopterus*, Day, *Faun. Brit. Ind. Fish. I*, p. 14 (Calicut).
1910. *Carcharias melanopterus*, De, *Rep. Fish. Eastern Bengal & Assam*, p. 17 (Chittagong).
1922. *Carcharinus melanopterus*, Hora, *Mem. Ind. Mus. V*, p. 763 (Chilka Lake).
1929. *Carcharias melanopterus*, Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 350 (Travancore).
1933. *Eulamia melanoptera*, Deraniyagala, *Ceylon Journ. Sci. (c) V*, p. 80 (Ceylon).
1941. *Eulamia melanoptera*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 158.
1941. *Carcharinus melanopterus*, Herre, *Mem. Ind. Mus. XIII*, p. 332 (Andamans).
1942. *Carcharinus melanopterus*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 556 (Bombay).

*Distribution*.—South Africa, Red Sea, Arabia, India, Burma, Ceylon, Andamans, Malay Peninsula, Siam, Indo-China, China, Japan, Java, Amboyna, Philippines, Melanesia, Micronesia, Polynesia, Hawaii. Whitley (*vide supra*, p. 10) writes : “An old record of this species as *Carcharhinus melanopterus*, from Victoria possibly refers to a Whaler Shark. The specific name *spallanzani* was given by Lesueur, one of the French naturalists in Western Australia with Baudin’s expedition in the early 19th Century, and is earlier than *melanopterus*, a name often used for this species.”

#### *Carcharhinus menisorrah* (Müller & Henle).

1841. *Carcharias (Prionodon) menisorrah*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 46, pls. xvii, xix, fig. 7 (type locality : Java ; Australia ; Red Sea ; the paratotype from Mer des Indes is in the Paris Museum).
1873. *Carcharias malabaricus*, Day, *Journ. Linn. Soc. London X*, Zool. p. 529 (type locality : Palliport near Cochin and Calicut on Malabar Coast, India).
1878. *Carcharias menisorrah*, Day, *Fish. India*, p. 716, pl. clxxxiv, fig. 1 (Calicut ; Red Sea ; Malay Archipelago ; the example figured, 19 inches long, was from Calicut).
1889. *Carcharias menisorrah*, Day, *Faun. Brit. Ind. Fish. I*, p. 16 (Red Sea to the Malay Archipelago).
1912. *Carcharias manisorrah*, Jenkins, *Rec. Ind. Mus. VII*, p. 57 (Akyab).
1933. *Carcharias menisorrah*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1941. *Eulamia menisorrah*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 161.

*Distribution*.—Red Sea, Arabia, India, Burma, Malay Peninsula, Indo-China, Java, Philippines; Panama. According to Whitley (*vide supra*, p. 10) the presence of *C. menisorrah* in the Australian water is doubtful.

#### *Carcharhinus pleurotaenia* (Bleeker).

1852. *Carcharias (Prionodon) pleurotaenia*, Bleeker, *Verh. Bat. Gen. (Plagiost.) XXIV*, pp. 28, 40, pl. ii, fig. 6 (type locality : Batavia).
1942. *Carcharinus pleurotaenia*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 558 (Bombay).

*Distribution*.—India, Singapore, Java, Philippines. *Carcharhinus pleurotaenia* has been recorded for the first time in India by Sarangdhar (*loc. cit.*) from Bombay.

**Carcharhinus sorrah Müller & Henle.**

1841. *Carcharias (Prionodon) sorrah*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 45, pl. xvi [type locality : India ; Java ; Madagascar : according to Bertin (*vide supra*, p. 9) the paratotypes from Pondicherry and Madagascar are in the Paris Museum].
1878. *Carcharias sorrah*, Day, *Fish. India*, p. 714, pl. clxxxv, fig. 1 (India ; Mangalore ; Malay Archipelago).
1889. *Carcharias sorrah*, Day, *Faun. Brit. Ind. Fish. I*, p. 12 Seas of India to the Malay Archipelago.
1913. *Carcharhinus sorrah*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 132 (Indian Seas ; Madagascar ; Borneo ; Java).
1933. *Carcharias sorrah*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1939. *Carcharhinus sorrah*, Bertin, *Bull. Mus. Nat. Hist. Paris* (2) XI, p. 71.
1941. *Eulamia sorrah*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 156.

*Distribution*.—Madagascar, Red Sea, India, Malay Peninsula, Indo-China, China, Malay Archipelago, Melanesia, Hawaii.

**Carcharhinus temminckii (Müller & Henle).**

1841. *Carcharias (Prionodon) temminckii*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 48, pl. xviii (type locality : Pondicherry).
1860. *Squalus (Carcharhinus) temminckii*, Blyth, *Journ. As. Soc. Bengal XXIX*, p. 36 (Calcutta.)
1870. *Carcharias temminckii*, Günther, *Cat. Fish. Brit. Mus. VIII*, p. 374 (Calcutta.)
1878. *Carcharias temminckii*, Day, *Fish. India*, p. 717 (India).
1889. *Carcharias temminckii*, Day, *Faun. Brit. Ind. Fish. I*, p. 17 (India).
- 1889-90. *Carcharias temminckii*, Vinciguerra, *Ann. Mus. Civ. Stor. Nat. Genova XXIX*, p. 160 (Rangoon).
1913. *Carcharhinus temminckii*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 142 (Indian Seas).
1941. *Eulamia temminckii*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 176.

*Distribution*.—India, Burma, Malay Archipelago.

**Genus Hemigaleus Bleeker.**

1852. *Hemigaleus* Bleeker, *Verh. Bat. Gen. (Plagiost.) XXIV*, p. 45. (Type, *Hemigaleus microstoma* Bleeker, designated by Jordan, *Gen. Fish. pt. 2*, p. 250, 1919.)
1862. *Chaenogaleus* Gill, *Ann. Lyc. Nat. Hist. New York*, VII, p. 411. (Type, *Hemigaleus microstoma* Bleeker.)

**Hemigaleus balfouri Day.**

1878. *Hemigaleus balfouri*, Day, *Fish. India*, p. 717, pl. clxxxv, fig. 4 (type locality : Waltair, Coromandel Coast).
1889. *Hemigaleus balfouri*, Day, *Faun. Brit. Ind. Fish.* p. 18, fig. 2 (Coromandel Coast).
1913. *Hemigaleus balfouri*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 152 (Coromandel Coast).
1941. *Hemigaleus balfouri*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 184.

*Distribution*.—India, Philippines.

**Genus Galeorhinus Blainville.**

1864. *Galeorhinus* Blainville, *Bull. Soc. Philom. Paris VIII*, p. 121. (Type, *Squalus galeus* Linnaeus, designated by Gill, *Ann. Lyc. Nat. Hist. New York VII*, p. 40, 1862.)
1816. *Eugaleus* Gill, *Proc. Acad. Nat. Sci. Philadelphia* p. 148. (Type, *Squalus galeus* Linnaeus, orthotypic.)

**Galeorhinus omanensis** Norman.

1939. *Eugaleus omanensis*, Norman, *Sci. Rep. John Murray Exped. VIII*, p. 11, text-fig. 3 (type locality : Gulf of Oman, 201m., holotype is in the British Museum).

*Distribution*.—Gulf of Oman.

**Genus Galeocerdo Müller & Henle.**

1837. *Galeocerdo* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 115. (Type, *Squalus arcticus* Faber, monotypic.)

**Galeocerdo arcticus** (Faber).

1829. *Squalus arcticus*, Faber, *Nat. Fische Islands*, p. 17 (type locality : Iceland).  
 1878. *Galeocerdo tigrinus*, Day, *Fish. India*, p. 718 (Red Sea ; India ; Japan).  
 1878. *Galeocerdo rayneri* (nec MacDonald & Barrow), Day, *Fish. India*, p. 718, pl. clxxxvii, fig. 3 (India).  
 1889. *Galeocerdo tigrimus*, Day, *Faun. Brit. Ind. Fish. I*, p. 21, fig. 3 (Red Sea, Seas of India to Japan and beyond).  
 1889. *Galeocerdo rayneri* (nec MacDonald & Barrow), Day, *Faun. Brit. Ind. Fish. I*, p. 20 (Indian Seas ; nec Australian Seas).  
 1912-13. *Galeocerdo tigrinus*, Southwell, *Ceylon Adminstr. Rep.*, pp. E 46, E 49.  
 1913. *Galeocerdo arcticus*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 148, pl. xliii, figs. 6-8 (tropical and temperate seas to 70° or more from Equator).  
 1929. *Galeocerdo rayneri* (nec MacDonald & Barrow), Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 350 (Travancore).  
 1933. *Galeocardus tigrinus*, Deraniyagala, *Ceylon Journ. Sci. (c) V*, p. 80 (Ceylon).  
 1941. *Galeocerdo cuvier* (nec Lesueur), Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 186.  
 1942. *Galeocerdo tigrinus*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 556 (Bombay).

*Distribution*.—Natal, Red Sea, Arabia, India, Ceylon, Indo-China, China, Japan, Java, Philippines, Melanesia, Hawaii, the Galapagos, California and the Atlantic. Whitley (*vide supra*, p. 10) writes : “Tiger Sharks are widely distributed in the world’s seas and fossils very similar to the recent species are found. Since names are available for Australian forms, which differ in dentition from the Old World *G. arcticus* (Faber), I use *rayneri* and *cuvier* for the Southern and North-Western Australian species respectively.”

**Genus Myrmillo Gistel.**

1768. *Mustelus* Valmont, *Dict. Hist. Nat. Poiss. III*, p. 138 (Type, *Galeus stellatus* Valmont = *Squalus mustelus* Linn.; inadmissible, according to Opinion 89 of the International Commission of Zoological Nomenclature.)  
 1790. *Mustelus* Linck, *Mag. Phys. Naturg. Gotha (3) VI*, p. 31. (Type, *Squalus mustelus* Linn. monotypic; inadmissible according to Opinion 93 of the International Commission of Zoological Nomenclature.)  
 1813. *Mustellus* Fischer-Waldheim, *Zoognosia*, ed. 3. I, p. 78. (Type, *Squalus mustelus* Linn.; inadmissible according to the rules under Art. 35, d of the International Commission of Zoological Nomenclature).  
 1848. *Myrmillo* Gistel, *Naturg. Theirreiche*, p. X. (Type, *Squalus mustelu* Linn.)

**Myrmillo manazo** (Bleeker).

1857. *Mustelus manazo*, Bleeker, *Verh. Bat. Gen. (Japan)* XXVI, pp. 42, 126  
(type locality : Nagasaki).
1870. *Mustelus manazo*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 387 (Japan : Ceylon ?).
1878. *Mustelus manazo*, Day, *Fish. India*, p. 720, pl. clxxxvi, fig. 3 (Kurrachee).
1889. *Mustelus manazo*, Day, *Faun. Brit. Ind. Fish.* I, p. 24 (India ; Japan).
1933. *Mustelus manazo*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1941. *Mustelus manazo*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 205.

*Distribution*.—Natal, Arabian Sea, India, Ceylon ?, Malay Peninsula, Indo-China, China, Japan, Philippines.

**Genus Triaenodon Müller & Henle.**

1837. *Triaenodon* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 117.  
Atypic. (Type, *Carcharias obesus* Rüppell, designated by Jordan, *Gen. Fish.*, p. 192, 1919.)

**Triaenodon obesus** (Rüppell).

1837. *Carcharias obesus*, Rüppell, *Neue Wirbelth. Fische*, p. 64, pl. xviii, fig. 2  
(type locality : Djedda, Red Sea).
1841. *Triaenodon obesus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 55,  
pl. xx (Indian Ocean, Red Sea).
1878. *Triaenodon obtusus*, Day, *Fish. India*, p. 720, pl. clxxxix, fig. 3 (type  
locality : Kurrachee).
1889. *Triaenodon obtusus*, Day, *Faun. Brit. Ind. Fish.* I, p. 25 (Kurrachee).
1889. *Triaenodon obesus*, Day, *Faun. Brit. Ind. Fish.* I, p. 25 (probably off  
India).
1913. *Triaenodon obtusus*, German, *Mem. Mus. Comp. Zool. Harvard*, XXXVI,  
p. 163 (Kurrachee, India).
1914. *Triaenodon obtusus*, Pearson, *Ceylon Administr. Rep.*, p. E 4.
1941. *Triaenodon obesus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 194.

*Distribution*.—Madagascar, Seychelles, Red Sea, Arabian Sea, India, Ceylon, Malay Archipelago, Melanesia, Polynesia, Hawaii.

**Family SPHYRNIDAE.****Genus Sphyrna Rafinesque.**

1792. *Cestracion* (Klein) Walbaum, *Artedi Pisc.* III, p. 580. (Type, *Squalus zygaena* Linn.; inadmissible according to Opinion 21 of the International Commission of Zoological Nomenclature.)
1810. *Sphyrna* Rafinesque, *Indice, Itt. siciliana*, pp. 46, 60. (Type, *Squalus zygaena* Linn., designated by Jordan and Gilbert, *Bull. U. S. Nat. Mus.* XVI, p. 26, 1883.)

**Sphyrna blochii** (Cuvier).

1817. *Zygaena blochii*, Cuver, *Règne animal* II, ed. 1, p. 127 (on *Squalus zygaena* nec Linn., Bloch; type locality : Mediterranean ; America).
1837. *Zygaena laticeps*, Cantor, *Quart. Med. Journ. Calcutta*, p. 315, pls. i-iii  
(type locality : Calcutta).
1860. *Sphyrnias blochii*, Blyth, *Journ. As. Soc. Bengal*, XXIX, p. 35 (Calcutta).
1870. *Zygaena blochii*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 380 (Calcutta ; Singapore ; India ; Pinang ; Malabar).
1878. *Zygaena blochii*, Day, *Fish. India*, p. 719, pl. clxxxiv, fig. 4 (India ; Malay Archipelago ; Malabar).
1889. *Zygaena blochii*, Day, *Faun. Brit. Ind. Fish.* I, p. 22 (Malabar Coast).
1897. *Zygaena blochii*, Gupta, *Extract Preliminary Rep. Fish. Bengal in collection of papers Fishery Survey of Bengal*, p. 2 (Bengal).
- 1915-18. *Zygaena blochii*, Pearson, *Ceylon Administr. Rep.*, p. F 9.
1928. *Sphyrna blochii*, Fowler, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 101 (Bombay).

1933. *Zygaena blochii*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Sphyraena blochi*, Herre, *Mem. Ind. Mus. XIII*, p. 333 (Andamans).  
 1942. *Cestracion blochii*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 557 (Bombay).

*Distribution*.—Ceylon, India, Burma, Malay Peninsula, Indo-China, Malay Archipelago.

### **Sphyraena mokarran (Rüppell).**

1837. *Zygaena mokarran*, Rüppell, *Neue Wirbelth Fische*, p. 66, pl. xvii, fig. 2 (type locality: Massauh, Red Sea).  
 1870. *Zygaena mokarran*, Günther, *Cat. Fish. Brit. Mus. VIII*, p. 383 (Red Sea).  
 1887. *Zygaena dissimilis*, Murray, *Journ. Bombay Nat. Hist. Soc. II*, p. 103, pl. (type locality: Kurrachee).  
 1888. *Zygaena mokarran*, Day, *Fish. India. Suppl.*, p. 809 (Red Sea to Kurrachee).  
 1889. *Zygaena mokarran*, Day, *Faun. Brit. Ind. Fish. I*, p. 23 (Red Sea to Kurrachee).  
 1913. *Cestracion mokarran*, German, *Mem. Mus. Comp. Zool. Havard XXXVI*, p. 160 (Red Sea; India).  
 1941. *Sphyraena mokarran*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 214.

*Distribution*.—Red Sea, India, Philippines, China.

### **Sphyraena tudes (Valenciennes).**

1822. *Zygaena tudes*, Valenciennes, *Mem. Mus. Hist. Nat. Paris IX*, p. 225, pl. xii, figs. 1a-b (type locality: Mediterranean; Cayenne; Coromandel; types from Ceyenne and Nice are in the Paris Museum).  
 1878. *Zygaena tudes*, Day, *Fish. India*, p. 720, pl. clxxxviii, fig. 4 (Mediterranean; Indian Ocean; Malay Archipelago; Atlantic).  
 1888. *Zygaena tudes*, Ogilby, *Cat. Fish. Austral. Mus.*, p. 4 (Madras).  
 1889. *Zygaena tudes*, Day, *Faun. Brit. Ind. Fish. I*, p. 23 (Mediterranean; Indian Ocean, Malay, Archipelago, Atlantic).  
 1929. *Zygaena tudes*, Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 351 (Travancore).  
 1933. *Zugaena tudes*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).

*Distribution*.—Mediterranean, East Africa, Arabian Sea, India, Indo-China, Philippines Melanesia, Hawaii, Panama, Atlantic. Whitley (*vide supra*, p. 10) writes: "I think there is only one species in Australasia, but it has been recorded under various specific names: *zygaena*, *tudes*, *malleus*, *blochii*, etc." He records only *Sphyraena lewini* (Griffith) in Australia.

### **Sphyraena zygaena (Linnaeus).**

1758. *Squalus zygaena*, Linnaeus, *Syst. Nat. I*, ed. 10, p. 234 (type locality: Europe; America).  
 1878. *Zygaena malleus*, Day, *Fish. India*, p. 719, pl. clxxxvi, fig. 4 (tropical and temperate Seas).  
 1889. *Zygaena malleus*, Day, *Faun. Brit. Ind. Fish. I*, p. 22 (tropical and temperate Seas).  
 1912-13. *Zygaena malleus*, Southwell, *Ceylon Adminstr. Rep.*, p. E 49.  
 1929. *Zygaena malleus*, Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 351 (Travancore).  
 1933. *Zygaena malleus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1942. *Cestracion zygaena*, Sarangdhar, *Ind. Journ. Med. Res. XXX*, p. 557 (Bombay).

*Distribution*.—N. Africa, Madagascar, Seychelles, Red Sea, Arabia, India, Ceylon, Malay Peninsula, Indo-China, China, Japan, Philippines, Polynesia, Hawaii, Eastern Pacific and tropical Atlantic.

## Order SQUALIFORMES (TECTOSPONDYLI).

## Suborder SQUALOIDEI.

## Family SQUALIDAE.

Genus **Centrophorus** Müller & Henle.

1837. *Centrophorus* Müller & Henle, *Arch. Naturg.* III, p. 398. (Type, *Squalus granulosus* Schneider, monotypic.)  
 1838. *Lepidorhinus* Bonaparte, *N. Ann. Sci. Nat. Bologna* II, p. 207. (Type, *Squalus squamosus* Bonnaterre, monotypic.)

**Centrophorus rossi** Alcock.

1898. *Centrophorus rossi*, Alcock, *Ann. Mag. Nat. Hist.* (7) II, p. 143. (type locality : off Travancore Coast in 430 fms., type is in the Zoological Survey of India.)  
 1899. *Centrophorus rossi*, Alcock, *Ill. Zool. Investig. Fish.*, pl. xxvi, figs. 3, 3a, 3b, 3c (Off Travancore Coast).  
 1899. *Centrophorus rossi*, Alcock, *Cat. Ind. Deep Sea Fish.*, p. 13 (Bay of Bengal ; Arabian Sea).  
 1908. *Centroscymnus crepidater* (part) Regan, *Ann. Nag. Nat. Hist.* (8) II, p. 50 (Indian Ocean).  
 1913. *Lepidorhinus rossi*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 214 (Off Travancore Coast).  
 1941. *Centrophorus rossi*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 232.

*Distribution*.—Off Travancore Coast, India.

Genus **Centroscyllium** Müller & Henle.

1841. *Centroscyllium* Müller & Henle, *Syst. Beschr. Plagiostomata*, p. 191. (Type, *Spinax fabricii* Reinhardt, monotypic.)  
 1889. *Paracentroscyllium* Alcock, *Ann. Mag. Nat. Hist.* (6) IV p. 379. (Type, *Paracentroscyllium ornatum* Alcock, monotypic.)

**Centroscyllium (Paracentroscyllium) ornatum** Alc.

1889. *Paracentroscyllium ornatum*, Alcock, *Ann. Mag. Nat. Hist.* (6) IV, p. 379 (type locality : Bay of Bengal in 285-405 fms., type is in the Zoological Survey of India).  
 1894. *Paracentroscyllium ornatum*, Alcock, *Ill. Zool. Investig. Fish.*, pl. viii, fig. 2 (Bay of Bengal).  
 1896. *Centroscyllium ornatum*, Alcock, *Journ. As. Soc. Bengal* LXV, pp. 308, 310 (Arabian Sea).  
 1900. *Centroscyllium ornatum*, Alcock, *Ill. Zool. Investig. Fish.*, pl. xxxv, figs. 1, 1a-b.  
 1908. *Centroscyllium ornatum*, Regan, *Ann. Mag. Nat. Hist.* (8) II, p. 41 (Bay of Bengal).  
 1912. *Centroscyllium ornatum*, Sewell, *Rec. Ind. Mus.* VII, p. 2 (Arabian Sea).  
 1913. *Centroscyllium ornatum*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 233 (Bay of Bengal and Arabian Sea).  
 1941. *Centroscyllium ornatum*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 254.

*Distribution*.—Arabian Sea, Bay of Bengal, Philippines.

## Order RAJIFORMES.

## Family RHINOBATIDAE.

Genus **Rhinobatos** Linck.

- 1790 *Rhinobatos* Linck, *Mag. Phys. Naturg. Gotha* (3) VI, p. 32 (Atypic ; type *Raja rhinobatos* Linn., tautotypic).

1792. *Rhinobatus* (Klein) Walbaum, *Artedi Pisc.* III, p. 581. (Atypic; type, *Raja rhinobatos* Linn., tautotypic; inadmissible according to opinion 21 of the International Commission of Zoological Nomenclature.)  
 1801. *Rhinobatus* Schneider, *Syst. Ichth. Bloch*, p. 353 (type, *Raja rhinobatos* Linn., tautotypic).  
 1825. *Rhinobatis* Blainville, *Faune Francaise Poiss.*, p. 47. (Type, *Raja rhinobatos* Linn.)

### **Rhinobatos annandalei** (Norman).

1888. *Rhinobatus columnae* (nec Bonaparte), Day, *Fish. India*, Suppl., p. 811 (Indian Ocean).  
 1889. *Rhinobatus columnae* (nec Bonaparte), Day, *Fauna Brit. Ind. Fish.* I, p. 44 (Indian Ocean).  
 1909. *Rhinobatis columnae* (nec Bonaparte), Annandale, *Mem. Ind. Mus.* II, p. 14 (off Hugli River mouth).  
 1912-13. *Rhinobatus columnae* (nec Bonaparte), Southwell, *Ceylon Administr. Rep.*, pp. E 43, E 45, E 48, E 49.  
 1914. *Rhinobatus columnae* (nec Bonaparte), Pearson, *Ceylon Administr. Rep.*, p. E 14.  
 1926. *Rhinobatus annandalei*, Norman, *Proc. Zool. Soc. London*, p. 960, text-fig. 13 (type locality: East Channel, mouth of River Hughli, in 40 fathoms; according to Fowler<sup>1</sup> type is in the British Museum).  
 1941. *Rhinobatus annandalei*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 309

*Distribution*.—India, Ceylon, Malaya and Philippines.

### **Rhinobatos armatus** (Gray).

1830. *Rhinobatus typus*? Bennett, *Life of Raffles*, p. 694 (type locality: Sumatra; type? is in the British Museum).  
 1833-34. *Rhinobatus armatus* Gray, *Ill. Ind. Zool. Hardwicke* II, pl. xcix (type locality: India).  
 1841. *Rhinobatus* (*Rhinobatus*) *armatus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 119 (India).  
 1870. *Rhinobatus granulatus* (part) Günther, *Cat. Fish. Brit. Mus.* VIII, p. 443 (India; Sumatra).  
 1878. *Rhinobatus granulatus* (part) Day, *Fish. India*, p. 732 (Seas of India to the Malay Archipelago).  
 1889. *Rhinobatus granulatus* (part) Day, *Faun. Brit. Ind. Fish.* I, p. 42 (Seas of India to the Malay Archipelago).  
 1926. *Rhinobatus armatus*, Norman, *Proc. Zool. Soc. London*, p. 952, text-fig. 6 (India; Singapore; Macassar; Cape York; West Australia).  
 1941. *Rhinobatos typus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 319.

*Distribution*.—India, Malay Peninsula and Malay Archipelago.

Whitley (1940, p. 168) writes: "Several nominal species of the genus *Rhinobatos* have been recorded from Australia (such as *armatus*, *thouin* or *thouiniiana*, *halavi* and *granulatus*) but their inclusion in our lists has apparently rested upon old unconfirmed records, misidentifications, or wrongly localised specimens. There is apparently only one common tropical species to which I have given the name *batillum* (Latin for a chafing dish which it rather resembles in shape), and the other specific names may be expunged from our faunal list."

### **Rhinobatos granulatus** (Cuvier).

1829. *Rhinobatus granulatus*, Cuvier, *Régne Animal* II, ed. 2, p. 396 (type locality: Pondicherry; type is in the Paris Museum).  
 1841. *Rhinobatus* (*Rhinob.*) *granulatus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 117, pl. xxxviii (Tranquebar and Pondicherry).  
 1851. *Rhinobatus granulatus*, Gray, *List Fish Brit. Mus.* p. 95 (India.).

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<sup>1</sup>Fowler, H. W., *Bull. U. S. Nat. Mus.* (100) XIII, 1941.

1860. *Rhinobatus granulatus*, Blyth, *Journ. As. Soc. Bengal*, XXIX, p. 36 (Calcutta).
1865. *Rhinobatus (Rhinobatus) granulatus*, Duméril, *Hist. Nat. Elasmobr.* I, p. 493 (Malabar; Ganges River; Pondicherry).
1870. *Rhinobatus granulatus* (part), Günther, *Cat. Fish. Brit. Mus.* VIII, p. 443 (India; East Indies).
1878. *Rhinobatus granulatus* (part) Day, *Fish. India*, p. 732, pl. xcii, fig. 2, (Malabar).
1878. *Rhinobatus thouini* (nec Shaw), Day, *Fish. India*, p. 732, pl. cxc, fig. 4 (Andamans).
1889. *Rhinobatus granulatus* (part) Day, *Faun. Brit. Ind. Fish.* I, p. 42, fig. 17 (Seas of India to the Malay Archipelago).
1889. *Rhinobatus thouini* (nec Shaw), Day, *Faun. Brit. Ind. Fish.* I, p. 44 (Red Sea through India to the Malay Archipelago).
1908. *Rhinobatus acutus*, Garman, *Bull. Mus. Comp. Zool.* LI, p. 253 (type locality: Ceylon).
1909. *Rhinobatis granulatus*, Annandale, *Mem. Ind. Mus.* II, p. 14 (off Orissa).
1910. *Rhinobatis granulatus*, De, *Rep. Fish. Eastern Bengal & Assam*, p. 17 (Chittagong).
1913. *Rhinobatus granulatus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 272 (India).
1913. *Rhinobatus acutus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 273, pl. xviiib, figs. 1, 2 (Ceylon).
1926. *Rhinobatus granulatus*, Norman, *Proc. Zool. Soc. London*, p. 949, text-fig. 3 (Madras; India; Shanghai).
1929. *Rhinobatus granulatus*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 352 (Travancore).
1933. *Rhinobatus granulatus*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 81 (Ceylon).
1933. *Rhinobatus granulatus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1936. *Rhinobatus granulatus*, Hora & Mukerji, *Rec. Ind. Mus.* XXXVIII, pp. 18, 21, pl. ii, fig. 1 (Burma).
1941. *Rhinobatus granulatus*, Herre, *Mem. Ind. Mus.* XIII, p. 333 (Andamans).

*Distribution.*—India, Ceylon, Andamans, Burma, Malay Peninsula, Malay Archipelago, Siam, Cochin-China and China.

#### **Rhinobatos lionotus** (Norman).

1909. *Rhinobatis schlegeli* (nec Müller & Henle), Annandale, *Mem. Ind. Mus.* II, p. 15 (off Hughli River mouth and Mutlah River).
1926. *Rhinobatos lionotus*, Norman, *Proc. Zool. Soc. London*, p. 961, text-fig. 14 (type locality: East Channel, mouth of River Hughli, in 40 fathoms; according to Fowler (*vide supra*, p. 25) type is in the British Museum).
1941. *Rhinobatos lionotus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 310.

*Distribution.*—India (Bengal), Philippine Islands.

#### **Rhinobatos obtusus** (Müller & Henle).

1841. *Rhinobatus (Rhinobatus) obtusus*, (Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 122, pl. xxxvii, fig. 2 (type locality: India; Pondicherry; Malabar; according to Berlin (*vide supra*, p. 9) paratypes from Malabar and Pondicherry are in the Paris Museum).
1860. *Rhinobatus obtusus*, Blyth, *Journ. As. Soc. Bengal*, XXIX, p. 37 (Calcutta).
1865. *Rhinobatus obtusus*, Day, *Fish. Malabar*, p. 274 (Malabar).
1878. *Rhinobatus halavi* (nec Forskal) Day, *Fish. India*, p. 731, pl. xciii, fig. 4 (Mangalore).
1889. *Rhinobatus halavi* (nec Forskal) Day, *Faun. Brit. Ind. Fish.* I, p. 43 (South Africa; India; Malay Archipelago).
1926. *Rhinobatus obtusus*, Norman, *Proc. Zool. Soc. London*, p. 950, text-fig. 4 (rostra) (India; East Indies).

*Distribution.*—South Africa, India, Malay Archipelago.

**Rhinobatos thouiniana** (Shaw).

1798. *Raja thouin?* Anonymous, *Allg. Lit-zeit.* III, pp. 287, 677, 685, pl. i, figs. 3, 4 (type locality : not given).  
 1804. *Raja thouiniana*, Shaw, *Gen. Zool.* V, p. 318, pl. cxlvii, fig. 2 (locality unknown).  
 1933. *Rhinobatos thouini*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Rhinobates thouin*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 317.

*Distribution*.—Red Sea ? India, Siam, the Malay Archipelago.

*Rhinobatos thouiniana* has been listed for the first time in India by Sorley.

**Genus Rhina Schneider.**

1792. *Rhina* Walbaum, *Artedi Ichth.* III, ed. 2, p. 580. (Inadmissible according to the Opinion 21 of the International Commission of Zoological Nomenclature.)  
 1801. *Rhina* Schneider, *Syst. Ichth. Bloch*, p. 352. (Type, *Rhina aencylostomus* Schneider.)  
 1862. *Rhomphobatis* Gill, *Ann. Lyc. Nat. Hist. New York* VII, p. 408. (Type, *Rhina aencylostomus* Schneider.)

**Rhina aencylostoma** Schneider.

1801. *Rhina aencylostomus*, Schneider, *Syst. Ichth. Bloch.* p. 352, pl. lxxii (type locality : Indian Seas ; Coromandel).  
 1833-34. *Rhina aencylostomus*, Gray, *Ill. Ind. Zool. Hardwicke* II, pl. cii, fig. 2 (India).  
 1851. *Rhina aencylostomus*, Jerdon, *Madras Journ. Lit. Sci.* XVII, p. 148.  
 1851. *Rhina aencylostomus*, Gray, *List Fish. Brit. Mus.* p. 92 (Madras ; China ; Pinang).  
 1870. *Rhynchobatus aencylostomus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 440 (Madras ; China ; Seychelles ; Penang).  
 1878. *Rhynchobatus aencylostomus*, Day, *Fish. India*, p. 730, pl. exciii, fig. 3 (Madras).  
 1889. *Rhynchobatus aencylostomus*, Day, *Faun. Brit. Ind. Fish.* I, p. 41 (Coromandel Coast).  
 1909. *Rhamphobatis aencylostomus*, Annandale, *Mem. Ind. Mus.* II, p. 10, pl. v, fig. 5 (off Orissa and Hughli River mouth).  
 1914. *Rhynchobatus aencylostomus*, Pearson, *Ceylon Adminstr. Rep.*, p. E 4.  
 1929. *Rhynchobatus aencylostomus*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 351 (Travancore).  
 1933. *Rhynchobatus aencylostomus*, Deremiyagala, *Ceylon Journ. Sci.* (c) V, p. 81 (Ceylon).  
 1933. *Rhynchobatus aencylostomus*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).

*Distribution*.—East Africa, Red Sea, Seychelles, India, Ceylon, Malay Peninsula, Cochin China, Japan, Philippines.

**Genus Rhynchobatus Müller & Henle.**

1837. *Rhynchobatus* Müller & Henle, *Sitz. Ber. Akad. Wiss. Berlin*, p. 116. (Type, *Rhinobatus laevis* Schneider, monotypic.)

**Rhynchobatus djiddensis** (Forskal).

1775. *Raja djiddensis*, Forskal, *Descript. Animal.*, pp. viii, 18 (type locality : Djedda and Lohaja, Red Sea).  
 1841. *Rhynchobatus laevis*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 111 (India ; Red Sea ; Malabar).

1851. *Rhynchosaurus djeddensis*, Jerdon, *Madras Journ. Lit. Sci.* XVII, p. 148.  
 1865. *Rhynchosaurus djeddensis*, Day, *Fish. Malabar*, p. 273 (Malabar).  
 1870. *Rhynchosaurus djeddensis*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 441  
     (Red Sea; Zanzibar; Seychelles; Sumatra; East Indies; India).  
 1878. *Rhynchosaurus djeddensis*, Day, *Fish. India*, p. 730, pl. excii, fig. 1 (Coro-  
     mandel Coast).  
 1889. *Rhynchosaurus djeddensis*, Day, *Faun. Brit. Ind. Fish.* I, p. 40, fig. 16  
     (Coromandel Coast).  
 1909. *Rhinobatis djeddensis*, Annandale, *Mem. Ind. Mus.* II, p. 12 (Bay of  
     Bengal).  
 1913. *Rhynchosaurus djiddensis*, Garman, *Mem. Mus. Comp. Zool. Harvard*  
     XXXVI, p. 268 (Red Sea; East Indies; Africa; India).  
 1914. *Rhynchosaurus djiddensis*, Pearson, *Ceylon Adminstr. Rep.*, p. E 4.  
 1920. *Rhynchosaurus djeddensis*, Southwell & Prashad, *Rec. Ind. Mus.* XIX,  
     p. 4 (Ceylon).  
 1922. *Rhynchosaurus djiddensis*, Malpas, *Ceylon Adminstr. Rep.*, p. F 6.  
 1927. *Rhynchosaurus djeddensis*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII,  
     p. 352 (Travancore).  
 1933. *Rhynchosaurus djeddensis*, Derañiyagala, *Ceylon Journ. Sci.* (c) V, p. 81  
     (Ceylon).  
 1933. *Rhynchosaurus djeddensis*, Sorley, *Marine Fish. Bombay Presidency*, p.  
     159 (Bombay).  
 1941. *Rhynchosaurus djeddensis*, Herre, *Mem. Ind. Mus.* XIII, p. 333 (Andamans).  
 1942. *Rhynchosaurus djeddensis*, Sarangdhar, *Ind. Journ. Med. Res.* XXX,  
     p. 557 (Bombay).

*Distribution.*—E. Africa, Madagascar, Seychelles, Zanzibar, Red Sea, Arabia, India, Ceylon, Andamans, Malay Peninsula, Cochin China, Japan, Malay Archipelago, Melanesia.

### Family PRISTIDAE.

#### Genus *Pristis* Linck.

1779. *Pristis* Klein, *Neuer Schauplatz* VII, p. 403. (Type, *Squalus pristis* Linn., inadmissible.)  
 1790. *Pristis* Linck, *Mag. Phys. Naturg. Gotha* (3) VI, p. 31. (Type, *Squalus pristis* Linn., monotypic.)  
 1794. *Pristis* Latham, *Trans. Linn. Soc. London* II, p. 276. (Type, *Squalus pristis* Linn.)  
 1816. *Pristobatus* Blainville, *Bull. Soc. Philom. Paris*, VIII, p. 121. (Type, *Pristis antiquorus* Latham—*Squalus pristis* Linn., designated by Fowler, *Bull. Geol. Surv. New Jersey* IV, p. 81, 1911.)

#### *Pristis cuspidatus* Latham.

1794. *Pristis cuspidatus*, Latham, *Trans. Linn. Soc. London* II, p. 279, pl. xxvi, fig. 3 (type locality?).  
 1804. *Squalus semisagittatus*, Shaw, *General Zoology* V, p. 361 (type locality Indian Seas).  
 1851. *Pristis cuspidatus*, Gray, *List Fish Brit. Mus.* p. 90 (Tenasserim).  
 1865. *Pristis semisagittatus* Day, *Fish. Malaabr.*, p. 272 (Malabar).  
 1870. *Pristis cuspidatus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 439 (Pinang; India; East Indies; Tenasserim; Bengal).  
 1878. *Pristis cuspidatus*, Day, *Fish. India*, p. 728, pl. exci, fig. 3 (Calicut and Madras).  
 1888. *Pristis cuspidatus*, Ogilby, *Cat. Fish. Austral. Mus.* I, p. 14 (Madras).  
 1889. *Pristis cuspidatus*, Day, *Faun. Brit. Ind. Fish.* I, p. 37, fig. 15 (Seas of India to Malay Archipelago).  
 1907. *Pristis cuspidatus* Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).  
 1909. *Pristis cuspidatus*, Annandale, *Mem. Ind. Mus.* II, p. 5 (Off Orissa and Ganges mouth).  
 1910. *Pristis cuspidatus*, Southwell, *Spol. Zeyl.* VI, pt. 24, p. 137 (Portugal Bay, Ceylon).  
 1911. *Pristis cuspidatus*, Gupta, *Extract Preliminary Rep. Fish. Bengal in collection of papers Fishery Survey Bay of Bengal*, p. 2 (Bengal).

1912. *Pristis cuspidatus*, Jenkins, *Rec. Ind. Mus.* VII, p. 58 (Arakan Coast).  
 1913. *Pristis cuspidatus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 261 (India ; Red Sea ; East Indies).  
 1914. *Pristis cuspidatus*, Pearson, *Ceylon Adminstr. Rep.*, p. E 23 (Trincomalee).  
 1919. *Pristis cuspidatus*, Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 225 (off the Coast of Ceylon).  
 1928. *Pristis cuspidatus*, Fowler, *Journ. Bom. Nat. Hist. Soc.* XXXIII, p. 101 (Bombay).  
 1929. *Pristis cuspidatus*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 352 (Travancore).  
 1941. *Pristis cuspidatus*, Herre, *Mem. Ind. Mus.* XIII, p. 333 (Andamans).

*Distribution*.—Red Sea, India, Burma, Ceylon, Andamans, Malay Peninsula, Cochin China, Philippines.

### **Pristis microdon Latham.**

1794. *Pristis microdon*, Latham, *Trans. Lin. Soc. London* II, p. 280, pl. xxvi, fig. 4 (type locality ?).  
 1841. *Pristis perrottei*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 108 (type locality : Senegal ; paratype is in the Paris Museum).  
 1878. *Pristis perrottei*, Day, *Fish. India*, p. 729, pl. cxci, fig. 1 (Mahanadi river, Orissa).  
 1889. *Pristis perrottei*, Day, *Faun. Brit. Ind. Fish.* I, p. 38 (Mahanadi river, Orissa).  
 1909. *Pristis perrottetii*, Annandale, *Mem. Ind. Mus.* II, p. 6 (off Arakan Coast and Orissa).  
 1915-18. *Pristis perrottei*, Pearson, *Ceylon Adminstr. Rep.*, p. F 9.  
 1921. *Pristis perrottei*, Malpas, *Ceylon Adminstr. Rep.*, p. E 6.  
 1929. *Pristis perrottei*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 352 (Travancore).  
 1933. *Pristis perrottei*, Deraniyagala, *Ceylon Journ. Sci.* (o) V, p. 81 (Ceylon).  
 1933. *Pristis perrottei*, Sorley, *Marine Fish. Bombay Presidency*, p. 159.  
 1940. *Pristis perrottei*, Prater, *Journ. Bombay Nat. Hist. Soc.* XLI, p. 435 (Bombay).  
 1942. *Pristis perrottei*, Sarangdhar, *Ind. Journ. Med. Res.* XXX, p. 556 (Bombay).

*Distribution*.—Zanzibar, Madagascar, India, Ceylon, Siam, Malay Archipelago, tropical Atlantic.

### **Pristis pectinatus Latham.**

1794. *Pristis pectinatus*, Latham, *Trans. Zool. Soc. London* II, p. 278, pl. xxvi, fig. 2 (type locality : in the Ocean).  
 1822. *Squalus pectinatus*, Hamilton, *Fish. Ganges*, pp. 5, 361 (the Ganges).  
 1860. *Pristis pectinatus*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 36 (Calcutta).  
 1870. *Pristis pectinatus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 437 (West Indies ; Mexico ; Calcutta ; Cape of Good Hope).  
 1888. *Pristis pectinatus*, Day, *Fish. India Suppl.*, p. 811 (Red Sea through the Indian Ocean).  
 1889. *Pristis pectinatus*, Day, *Faun. Brit. Ind. Fish.* I, p. 39 (Akyab).  
 1908. *Pristis annandalei*, Chaudhuri, *Rec. Ind. Mus.* II, p. 391, fig. (type locality : Burma).  
 1909. *Pristis annandalei*, Annandale, *Mem. Ind. Mus.* II, p. 8, pl. v, fig. 4 (Bay of Bengal).  
 1910. *Pristis pectinatus*, De, *Rep. Fish. Eastern Bengal & Assam*, p. 17 (Chittagong).  
 1913. *Pristis pectinatus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 262 (tropical and temperate Seas).  
 1922. *Pristis pectinatus*, Hora, *Mem. Ind. Mus.* V, p. 763 (Chilka Lake).

*Distribution*.—South Africa, Red Sea, India, Burma, Philippines and tropical Atlantic.

**Pristis zijsron** Bleeker.

1851. *Pristis zijsron*, Bleeker, *Nat. Tijds. Nederland, Ind.* II, p. (417) 442  
(type locality: Bandjer-massing, Borneo, in rivers).
1870. *Pristis zijsron*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 438 (Ceylon).
1878. *Pristis zijsron*, Day, *Fish. India*, p. 729 pl. xcxi, fig. 2 (the example figured, 34 inches long, was from Madras).
1889. *Pristis zijsron*, Day, *Faun. Brit. Ind. Fish.* I, p. 38 (the Mekran and Sind Coasts).
1909. *Pristis zijsron*, Annandale, *Mem. Ind. Mus.* II, p. 8 (India).
1913. *Pristis zijsron*, Garman, *Mem. Mus. Comp. Zool.* XXXVI, p. 262 (India; East Indies; Ceylon; Borneo; Amboina).

*Distribution*.—India, Ceylon, East Indies and Philippines.

## Family DISCOBATIDAE.

Genus **Zanobatus** Garman.

1913. *Zanobatus* Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 291.  
(Type, *Platyrrhina schoenleinii* Müller & Henle, monotypic).

**Zanobatus schoenleinii** (Müller & Henle).

1841. *Platyrrhina schoenleinii*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 125, pl. xlvi (type locality: India).
1865. *Platyrrhina schoenleinii*, Duméril, *Hist. Nat. Elasmobr.* I, p. 577 (India).
1870. *Platyrrhina schonleinii*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 471 (India).
1878. *Platyrrhina schonleinii*, Day, *Fish. India*, p. 735 (Madras).
1889. *Platyrrhina schonleinii*, Day, *Faun. Brit. Ind. Fish.* I, p. 47 (Coromandel Coast; Madras).
1913. *Zanobatus schoenleinii*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 291 (India).
1941. *Zanobatus schoenleinii*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 327.

*Distribution*.—India, Philippines.

## Family RAJIDAE.

Genus **Raja** Linnaeus.

1758. *Raja* Linnaeus, *Syst. Nat.* I, ed. 10, p. 231. (Type, *Raja clavata* Linn.; designated by Jordan & Gilbert, *Proc. U. S. Nat. Mus.* V, p. 36, 1882.)
1775. *Leiobatus* Klein, *Neuer Schauplatz* I, p. 316. (Type, *Raja oxyrinchus* Linn., designated by Jordan, *Genera Fish.*, pt. I, p. 36, 1917; inadmissible.)
1777. *Raia* Stopoli, *Introd. Hist. Nat.* p. 464. (Type, *Raja clavata* Linn.)

**Raja andamanica** (Lloyd).

1909. *Raia andamanica*, Lloyd, *Mem. Ind. Mus.* II, p. 140 (type locality: Andaman Sea in 279 fathoms; type is in the Zoological Survey of India).
1909. *Raia andamanica*, Lloyd, *Ill. Zool. Investig. Fish.*, pl. xlvi, fig. 2 (Andaman Sea).
1913. *Raia andamanica*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 352 (Andaman Sea).
1941. *Raja andamanica*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 389.

*Distribution*.—India, Philippines.

### **Raja johannis-davisi Alcock.**

1899. *Raja johannis-davisi*, Alcock, *Cat. Ind. Deep Sea Fish.*, p. 21 (type locality : Travancore Coast in 224-284 fathoms ; type is in the Zoological Survey of India).  
 1900. *Raja johannis-davisi*, Alcock, *Ill. Zool. Investig. Fish.*, pl. xxvii, figs. 2, 2a (Travancore Coast).  
 1913. *Raja johannis-davisi*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 355 (off Travancore Coast).  
 1939. *Raja johannis-davisi*, Norman, *Sci. Rep. John Murray Exped. VII*, p. 14 (Travancore Coast ; Gulf of Aden ; Zanzibar ?).  
 1941. *Raja johannis-davisi*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 387

*Distribution*.—India, Philippines, Gulf of Aden, Zanzibar ?

### **Raja mamillidens Alcock.**

1889. *Raja mamillidens*, Alcock, *Ann. Mag. Nat. Hist. (6) IV*, p. 380 (type locality : Gulf of Manaar in 597 fathoms ; type is in the Zoological Survey of India).  
 1892. *Raja mamillidens*, Alcock, *Ill. Zool. Investig. Fish.*, pl. viii, fig. 1 (Gulf of Manaar).  
 1899. *Raja mamillidens*, Alcock, *Cat. Ind. Deep Sea Fish.*, p. 19 (Gulf of Manaar).  
 1913. *Raja mamillidens*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 350 (Gulf of Manaar).  
 1941. *Raja mamillidens*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 377.

*Distribution*.—India, Philippines.

### **Raja powelli Alcock.**

1898. *Raja powelli*, Alcock, *Ann. Mag. Nat. Hist. (7) II*, p. 145 (type locality : Gulf of Martaban, Burma, in 67 fathoms ; type is in the Zoological Survey of India).  
 1899. *Raja powelli*, Alcock, *Ill. Zool. Investig. Fish.*, pl. xxvi, fig. 4 (Gulf of Martaban, Burma).  
 1899. *Raja powelli*, Alcock, *Cat. Ind. Deep Sea Fish.*, p. 20 (Gulf of Martaban).  
 1906. *Raia philipi*, Lloyd, *Ann. Mag. Nat. Hist. (7) XVIII*, p. 309 (type locality : Gulf of Aden, in 130 fathoms ; type is in the Zoological Survey of India).  
 1907. *Raia philipi*, Lloyd, *Rec. Ind. Mus. I*, p. 5 ( $13^{\circ} 36' 00''$ N.,  $47^{\circ} 32' 00''$ E., in 130 fathoms, Arabian Sea).  
 1908. *Raia philipi*, Lloyd, *Ill. Zool. Investig. Fish.*, pls. xl, xli, fig. 1 (Gulf of Aden).  
 1909. *Raja powellii*, Annandale, *Mem. Ind. Mus. II*, p. 16 (off Trivandrum, West Coast of India).  
 1909. *Raia philipi*, Lloyd, *Mem. Ind. Mus. II*, p. 142, fig. 1c (Gulf of Aden).  
 1913. *Raia powelli*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 353 (Gulf of Martaban).  
 1913. *Raia philipi*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 353 (Gulf of Aden).  
 1929. *Raiia powelli*, Pillay, *Journ. Bombay Nat. Hist. Soc. XXXIII*, p. 352 (Travancore).  
 1939. *Raja powelli*, Norman, *Sci. Rep. John Murray Exped. London*, VII, p. 13 (Gulf of Aden ; Travancore Coast ; Gulf of Martaban).  
 1941. *Raia philipi*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 386.  
 1941. *Raja powelli*, Fowler, *Bull. U. S. Nat. Mus. (100) XIII*, p. 387.

*Distribution*.—Gulf of Aden, India, Philippines.

### **Raja reversa (Lloyd).**

1906. *Raia reversa*, Lloyd, *Ann. Mag. Nat. Hist. (7) XVIII*, p. 310 (type locality : Arabian Sea, off Beluchistan Coast in 820 fathoms ; type is in the Zoological Survey of India).  
 1908. *Raia reversa*, Lloyd, *Ill. Zool. Investig. Fish.*, pls. xxxix, xl, fig. 2 (Arabian Sea, off Beluchistan Coast).

1909. *Raja reversa*, Lloyd, *Mem. Ind. Mus.* II, p. 141 (Arabian Sea, off the Baluchistan Coast).  
 1913. *Raja reversa*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 354 (Arabian Sea, off the Baluchistan Coast).  
 1941. *Raja reversa*, Fowler, *Bull. U.S. Nat. Mus.* (100) XIII, p. 362.

*Distribution*.—Arabian Sea, Philippines.

Family TRYGONIDAE (*DASYBATIDAE*, *DASYATIDAE*).

Genus **Taeniura** Müller & Henle.

1837. *Taeniura* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 117. (Atypic ; type, *Trygon ornatum* Gray).

**Taeniura lymma** (Forskal).

1775. *Raja lymma*, Forskal, *Descript. Animal*, p. viii, 17 (type locality ; Lohaja, Red Sea).  
 1841. *Taeniura lymma*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 171, pl. lv, fig. 3 (India ; Red Sea ; Timor ; New Ireland).  
 1878. *Taeniura melanospilos*, Day, *Fish. India*, p. 740 (off Coromandel Coast).  
 1889. *Taeniura melanospilos*, Day, *Faun. Brit. Ind. Fish.* I, p. 56 (Coromandel Coast).  
 1910. *Taeniura melanospilos*, Southwell, *Rep. Ceylon Marine Lab.* I, p. 185 (Ceylon).  
 1912-13. *Taeniura melanospilos*, Southwell, *Ceylon Adminstr. Rep.*, pp. E 43, E 49 (Ceylon).  
 1933. *Taeniura melanospilus*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 81 (Ceylon).  
 1941. *Taeniura lymma*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 398.

*Distribution*.—Zanzibar, Mozambique, Mauritius, Red Sea, Arabia, India, Ceylon, Malay Peninsula, Siam, Malay Archipelago, Australia, Melanesia, Polynesia.

**Taeniura meyenii** Müller & Henle.

1841. *Taeniura meyenii*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 172, pl. lv. (type locality ; Mauritius, according to Bertin (*vide supra*, p. 9) the type is in the Paris Museum).  
 1912-13. *Taeniura meyenii*, Pearson, *Ceylon Adminstr. Rep.*, p. E13.  
 1941. *Taeniura meyenii*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 401.

*Distribution*.—Mauritius, Ceylon, Philippines. Whitley (*vide supra*, p. 10) writes thus : “A Mauritius species listed from Cape Upstart, Queensland, by Gray (*List. Spec. Fish. Brit. Mus.* I., *Chondropt.*, 1851, p. 124) apparently in error. This species may be expunged from the Australian list.”

Genus **Dasyatis** Rafinesque.

1792. *Dasybatus*. (Klein) Walbaum, *Artedi Pisc.* III, p. 581. (Atypic : type, *Raja pastinaca* Linn., designated by Jordan, *Proc. U. S. Nat. Mus.* IV, p. 35, 1881 ; inadmissible according to the opinion 21 of the International Commission of Zoological Nomenclature.)  
 1810. *Dasyatis* Rafinesque, *Caratt. Animal. Piante Sicilia*, p. 16. (Type, *Dasyatis ujo* Rafinesque, monotypic.)  
 1817. *Trygon* (Adanson) Cuvier, *Règne Animal*, ed. 1, II, p. 316. (Type, *Raja pastinaca* Linn., designated by Jordan, *Gen. Fish.*, p. 98, 1917.)  
 1828. *Pastinachus* Rüppell, *Atlas Reise Nördl. Afrika Fische*, p. 82. (Type *Raja sephen* Forskal.)  
 1837. *Himantura* Müller & Henle, *Arch. Naturg.* III, p. 400. Atypic ; type *Raja uarnak* Forskal, designated by Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 375, 1913).

1845. *Dasybatis* Agassiz, *Nomencl. Zool. Pisces*, p. 21. (Type, *Raja pastinaca* Linn.).  
 1913. *Amphotistius* Garman, *Mem. Mus. Comp. Zool. Harvard XXXV* I, p. 375 (Type, *Trygon savinus* Le Sueur, orthotypic).

### **Dasyatis (Himantura) alcockii (Annandale).**

1909. *Trygon alcockii*, Annandale, *Mem. Ind. Mus.* II, p. 27, fig. 3 (type locality: Puri, Orissa Coast; type is in the Zoological Survey of India).  
 1913. *Dasybatis alcockii*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVII* p. 378 (Orissa Coast).  
 1941. *Dasyatis alcockii*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 411.

*Distribution*.—India, Philippines.

### **Dasyatis (Himantura) bleekeri (Blyth).**

1860. *Trygon bleekeri*, Blyth, *Journ. As. Soc. Bengal*, XXIX, p. 41 (type locality: Bengal).  
 1870. *Trygon bleekeri*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 475 (Bay of Bengal).  
 1878. *Trygon bleekeri*, Day, *Fish. India*, p. 738, pl. cxcv, fig. 3 (the example figured, 8 inches across the disk, was from Bengal).  
 1889. *Trygon bleekeri*, Day, *Faun. Brit. Ind. Fish.* I, p. 54 (Bengal).  
 1909. *Trygon bleekeri*, Annandale, *Mem. Ind. Mus.* II, p. 26, pl. iii, fig. 9 (off Burma & Orissa).  
 1913. *Dasybatis bleekeri*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 379 (Burma; Orissa; Bengal).  
 1915-18. *Trygon bleekeri*, Pearson, *Ceylon Adminstr. Rep.*, p. F 14.  
 1933. *Trygon bleekeri*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Dasyatis bleekeri*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 410.

*Distribution*.—India, Ceylon, Siam, Cochin China, Philippines.

### **Dasyatis (Himantura) favus (Annandale).**

1909. *Trygon favus*, Annandale, *Mem. Ind. Mus.* II, p. 25, pl. i, fig. 3, pl. iii, fig. 10 (type locality: off Orissa; type is in the Zoological Survey of India).  
 1913. *Dasybatis favus*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 377 (off Coast of Orissa).  
 1941. *Dasyatis favus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 412.

*Distribution*.—India, Philippines.

### **Dasyatis (Himantura) gerrardi (Gray).**

1851. *Trygon gerrardi*, Gray, *List Fish Brit. Mus.* p. 116 (type locality: India).  
 1870. *Trygon gerrardi*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 474 (India, East Indies; Japan).  
 1878. *Trygon uarnak* (nec Forskal), Day, *Fish. India*, pl. exciv, fig. 1.  
 1909. *Trygon gerrardii*, Annandale, *Mem. Ind. Mus.* II, p. 24, pl. ii, fig. 2, pl. iii, fig. 6 (Burma; Chittagong; Orissa).  
 1913. *Dasybatis gerrardi*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 377 (India; East Indies; Samoa; Zanzibar).  
 1941. *Dasyatis gerrardi*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 409.

*Distribution*.—Zanzibar, Red Sea, India, Burma, Japan, Malay Archipelago, Polynesia.

### **Dasyatis (Himantura) uarnak (Forskal).**

1775. *Raja uarnak*, Forskal, *Descript. Animal.*, pp. viii, 18 (type locality Arabia).  
 1833-34. *Trygonobatus russellii*, Gray. *Ill. Ind. Zool. Harlwieke*, II, pl. c (type locality: India).

1841. *Trygon variegatus*, McGlelland, *Calcutta Journ. Nat. Hist.* I, p. 60, pl. ii, fig. 2 (type locality : Salt lake, near Calcutta).
1853. *Trygon chindrakee*, Bleeker, *Verh. Bat. Gen. (Bengal)* XXV, p. 82 (on *Tenkee shindraki* Russell, *Fish. Coromandel* I, p. 3, pl. v, 1803 ; type locality : Vizagapatam).
1860. *Trygon ellioti*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 41, (type locality : Lower Bengal).
1860. *Trygon russellii*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 42 (Calcutta).
1860. *Trygon uarnak*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 44 (Calcutta).
1865. *Trygon uarnak*, Day, *Fish. Malabar*, p. 277 (Malabar).
1865. *Trygon (Himantura) undulatus*, Duméril, *Hist. Nat. Elasmobr.* I, p. 586 (Malabar).
1870. *Trygon uarnak*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 473 (Red Sea, Zanzibar ; Seychelles ; Madras ; Pinang ; India ; East Indies).
1878. *Trygon uarnak*, Day, *Fish. India*, p. 737, nec. pl. exciv, fig. 1 (Red Sea : Seas of India to the Malay Archipelago, China and Cape of Good Hope).
1889. *Trygon uarnak*, Day, *Faun. Brit. Ind. Fish.* I, p. 53 (Red Sea : Seas of India to the Malay Archipelago, China and Cape of Good Hope).
1907. *Trygon uarnak*, Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).
1909. *Trygon uarnak*, Annandale, *Mem. Ind. Mus.* II, p. 22, pl. i, figs. 1, 2, pl. ii, figs. 1, 1a, pl. iii, fig. 2 (Bay of Bengal).
1910. *Trygon uarnak*, De, *Rep. Fish. Eastern Bengal & Assam*, p. 17 (Chittagong).
- 1912-13. *Trygon uarnak*, Pearson, *Ceylon Adminstr., Rep.* p. E 13.
- 1912-13. *Trygon uarnak*, Southwell, *Ceylon Adminstr. Rep.*, pp. E 43, E 44.
1913. *Dasybatus uarnak*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 376 (Indian Ocean ; Red Sea ; East Indies).
1914. *Trygon uarnak*, Pearson, *Ceylon Adminstr. Rep.*, p. E 4.
1922. *Trygon uarnak*, Moses, *Madras Fish. Bull.* XV, p. 157 (Madras).
1922. *Trygon pareh*, Hora, *Mem. Ind. Mus.* V, p. 763 (Chilka Lake).
1928. *Dasyatis uarnak*, Fowler, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 101 (Bombay).
1933. *Dasyatis uarnak*, Deraniyagala, *Ceylon Journ. Sci. (c.)* V, p. 80 (Ceylon).
1933. *Trygon uarnak*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).
1941. *Dasybatus uarnak*, Herre, *Mem. Ind. Mus.* XIII, p. 333, (Andamans).
1942. *Dasybatus uarnak*, Sarangdhar, *Ind. Journ. Med. Res.* XXX, p. 558 (Bombay).

*Distribution*.—Cape of Good Hope, Natal, Madagascar, Seychelles, Zanzibar, Red Sea, Arabia, India, Ceylon, Andamans, Burma, Malay Peninsula, Siam, Cochin China, Malay Archipelago, Melanesia, Polynesia.

### **Dasyatis (Pastinachus) bennetti** (Müller & Henle).

1841. *Trygon bennetti*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 160, pl. liii (type locality : China and Trinidad).
1870. *Trygon bennetti*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 480 (China ; India ; British Guiana).
1878. *Trygon bennetti*, Day, *Fish. India*, p. 739 (Seas of India to China and Ceylon).
1889. *Trygon bennetti*, Day, *Faun. Brit. Ind. Fish.* I, p. 52 (Seas of India to China and Ceylon).
1913. *Dasybatus bennetti*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 383 (China ; India).
1941. *Dasyatis bennetti*, Fowler, *Bull. U. S. Nat. Mus. (100)* XIII, p. 413.

*Distribution*.—India, Cochin China, Philippines.

### **Dasyatis (Pastinachus) sephen** (Forskal<sup>o</sup>).

1775. *Raja sephen* Forskål, *Descript. Animal.*, pp. viii, 17, (type locality : Djedda, Lohaja, Red Sea).
1822. *Raja fluvialis*, Hamilton, *Fish. Ganges*, p. 1 (type locality : Kanpur, Ganges river).
1822. *Raja sancur*, Hamilton, *Fish. Ganges*, p. 2 (type locality : Ganges river).
1851. *Hypolophus sephen*, Gray, *List Fish. Brit. Mus.* p. 123 (India).
1860. *Hypolophus sephen*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 37 (Calcutta).
1870. *Trygon sephen*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 482 (Indian Ocean ; East Indies ; Pinang ; Seychelles).

1878. *Trygon sephen*, Day, *Fish. India*. p. 740, pl. cxcv, fig. 2 (Red Sea, through the Seas of India to the Malay Archipelago, and beyond).  
 1889. *Trygon sephen*, Day, *Faun. Brit. Ind. Fish.* I, p. 50, figs. 21-21 (Red Sea, through the Seas of India to the Malay Archipelago, and beyond).  
 1909. *Hypolophus sephen*, Annandale, *Mem. Ind. Mus.* II, p. 35 (off Burma).  
 1912-13. *Trygon sephen*, Southwell, *Ceylon Adminstr. Rep.*, pp. E 41, E 42, E 45, E 48, E 50.  
 1913. *Dasybatus sephen*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 384 (Indian Ocean; Red Sea; East Indies; India).  
 1922. *Hypolophus sephen*, Hora, *Mem. Ind. Mus.* V, p. 763 (Chilka Lake).  
 1928. *Dasyatis sephen*, Fowler, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 102 (Bombay).  
 1929. *Trygon sephen*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 353 (Travancore).  
 1933. *Dasyatis sephen*, Deraniyagala, *Ceylon Journ. Sci. (c)* V, p. 80 (Ceylon).  
 1933. *Trygon sephen*, Sorley, *Marine Fish. Bombay Presidency* p. 159 (Bombay).

*Distribution*.—Seychelles, Red Sea, Arabia, India, Ceylon, Burma, Singapore, Siam, Indo-China, Malay Archipelago, Micronesia.

### **Dasyatis (Dasyatis) pastinaca (Linnaeus).**

1758. *Raja pastinaca*, Linnaeus, *Syst. Nat.* I, ed. 10, p. 232 (type locality : Europe).  
 1789. *Raja pastinaca*, Gmelin, *Syst. Nat. Linn.* I, p. 1509 (Europe; Red Sea; Indian Sea).  
 1929. *Trygon pastinaca*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 353 (Travancore).  
 1941. *Dasyatis pastinacoides*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 420.

*Distribution*.—South Africa, Natal, Madagascar, India, Philippines, also in the Atlantic.

### **Dasyatis (Amphotistius) imbricata (Schneider).**

1801. *Raja imbricata*, Schneider, *Syst. Ichth. Bloch.*, p. 366 (type locality : Coromandel).  
 1841. *Trygon walga*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 159, pl. li, fig. 1 (type locality : India; Red Sea; the paratypes from Red Sea and India are in the Paris Museum).  
 1870. *Trygon walga*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 475 (Bengal Bay; East Indies; Pinang; Java).  
 1870. *Trygon nuda*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 476 (type locality : Singapore; India).  
 1870. *Trygon imbricata*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 481 (Indian Seas).  
 1878. *Trygon walga*, Day, *Fish. India*, p. 738, pl. xciv, fig. 3 (Red Sea through the Seas of India to the Malay Archipelago).  
 1878. *Trygon imbricata*, Day, *Fish. India*, p. 739 (Coromandel Coast of India).  
 1889. *Trygon imbricata*, Day, *Faun. Brit. Ind. Fish.* I, p. 52 (Coromandel Coast of India).  
 1889. *Trygon walga*, Day, *Faun. Brit. Ind. Fish.* I, p. 55 (Red Sea, through the Seas of India to the Malay Archipelago).  
 1907. *Trygon walga*, Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).  
 1909. *Trygon imbricata*: Annandale, *Mem. Ind. Mus.* II, p. 32, pl. iii, fig. 5, text-fig. 6 (Puri on Orissa Coasts).  
 1912-13. *Trygon imbricata*, Pearson, *Ceylon Adminstr. Rep.*, p. E 13.  
 1912-13. *Trygon walga*, Southwell, *Ceylon Adminstr. Rep.*, pp. E 43, E 45, E 47, E 48, E 49.  
 1914. *Trygon walga*, Pearson, *Ceylon Adminstr. Rep.*, p. E 4.  
 1922. *Trygon walga*, Moses, *Madras Fish. Bull.* XV, p. 157 (Madras).  
 1922. *Trygon imbricata*, Hora, *Mem. Ind. Mus.* V, p. 763 (Chilka Lake).  
 1926. *Trygon walga*, Malpas, *Ceylon Journ. Sci. (c)* II, p. 34 (Ceylon).  
 1929. *Trygon walga*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 353 (Travancore).  
 1933. *Trygon walga*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Dasyatis imbricatus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 434.

*Distribution.*—Red Sea, Mauritius, Seychelles, India, Ceylon, Burma, Malay Peninsula, Siam, Indo-China, China, Java, Philippines.

**Dasyatis (Amphotistius) jenkinsii (Annandale).**

1909. *Trygon jenkinsii*, Annandale, *Mem. Ind. Mus.* II, p. 28, text-figs. 4, 4a [type locality : Off Ganjam Coast, India, in 23-27 fathoms; type (dried skin, mouth in spirit) is in the Zoological Survey of India].  
 1913. *Dasybatus jenkinsii*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 378 (off Ganjam Coast, India).  
 1941. *Dasyatis jenkinsii*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 432.

*Distribution.*—India (Ganjam Coast), Philippines.

**Dasyatis (Amphotistius) kuhlii (Müller & Henle).**

1841. *Trygon kuhlii*, Müller & Henle, *Syst. Beschr. Plagiostomen*, Rep., 164, pl. li, fig. 2 (type locality : India, Vanicore, New Guinea; paratotypes from Vanicore and New Guinea are in the Paris Museum).  
 1878. *Trygon kuhlii*, Day, *Fish. India*, p. 739, pl. xciii, fig. 2 (Madras).  
 1889. *Trygon kuhlii*, Day, *Faun. Brit. Ind. Fish.* I, p. 52 (Madras).  
 1909. *Trygon kuhlii*, Annandale, *Mem. Ind. Mus.* II, p. 34 (off Gopalpur, 24 fathoms).  
 1912-13. *Trygon kuhlii*, Pearson, *Ceylon Adminstr.*, p. E 12.  
 1913. *Dasybatus kuhlii*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 395 (Japan to India; East Indies).  
 1914. *Trygon kuhlii*, Raj, *Rec. Ind. Mus.* X, p. 317 (Madras).  
 1919. *Trygon kuhlii*, Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 229, pl. xix, fig. 1 (Periya Paar on the Coast of Ceylon).  
 1921. *Trygon kuhlii*, Malpas, *Ceylon Adminstr. Rep.*, pp. E 5-E 8.  
 1933. *Trygon kuhlii*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Dasyatis kuhlii*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 424.

*Distribution.*—Zanzibar, India, Ceylon, Singapore, Siam, Cochin China, China, Japan, Java, Celebes, Philippines, Melanesia, Polynesia, Australia.

**Dasyatis (Amphotistius) marginatus (Blyth).**

1860. *Trygon marginatus*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 38 (type locality : Lower Bengal).  
 1860. *Trygon atrocissimus*, Blyth, *Journ. As. Soc. Bengal* XXIX, p. 39 (type locality : Indian Ocean; tail with spine).  
 1865. *Trygon (Himantura) marginatus*, Duméril, *Nat. Hist. Elasmobr.* I, p. 588 (Calcutta).  
 1878. *Trygon marginatus*, Day, *Fish. India*, p. 738 (Hooghly at Calcutta).  
 1889. *Trygon marginatus*, Day, *Faun. Brit. Ind. Fish.* I, p. 54 (Hooghly at Calcutta).  
 1909. *Trygon marginatus*, Annandale, *Mem. Ind. Mus.* II, p. 30, text-fig. 5, pl. iii, fig. 11 (off Burma and Ganjam).  
 1913. *Dasybatus marginatus*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 378 (Burma; Ganjam; India).  
 1915-18. *Trygon marginatus*, Pearson, *Ceylon Adminstr. Rep.*, p. E 16.  
 1941. *Dasyatis marginatus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 433.

*Distribution.*—India, Burma, Ceylon, Philippines.

**Dasyatis (Amphotistius) microps (Annandale).**

- 1908 *Trygon microps*, Annandale, *Rec. Ind. Mus.* II, p. 393, pl. xxvii (type locality : Bay of Bengal off Chittagong, in 17 fathoms; type is in the Zoological Survey of India).  
 1909. *Trygon microps*, Annandale, *Mem. Ind. Mus.* II, p. 20, text-fig. 1, pl. ii, fig. 3, pl. iii, fig. 1, pl. iv, fig. 1 (off Orissa).  
 1913. *Dasybatus microps*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 381 (Bay of Bengal).  
 1941. *Dasyatis microps*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 431.

*Distribution.*—India, Philippines.

**Dasyatis (Amphotistius) zugei (Müller & Henle).**

1841. *Trygon zugei*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 165, pl. liv  
(type locality : Japan ; China ; Pondicherry, India).  
 1860. *Trygon crozieri*, Blyth, *Journ. As. Soc. Bengal*, p. 45 (type locality : Lower Bengal).  
 1870. *Trygon zugei*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 481, (Japan ; East Indies ; Pinang ; Madras).  
 1878. *Trygon zugei*, Day, *Fish. India*, p. 739, pl. cxc, fig. 3 (Madras).  
 1888. *Trygon zugei*, Ogilby, *Cat. Fish. Austral. Mus.* p. 20 (Madras).  
 1889. *Trygon zugei*, Day, *Faun. Brit. Ind. Fish.* I, p. 52 (Seas of India to the Malay Archipelago and Japan).  
 1909. *Trygon zugei*, Annandale, *Mem. Ind. Mus.* II, p. 33, pl. iv, fig. 2 (off Burma and Orissa).  
 1913. *Dasybatus zugei*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 398, pl. lxxi, fig. 3 (Pinang ; China ; India ; Japan ; East Indies).  
 1915-18. *Trygon zugei*, Pearson, *Ceylon Adminstr. Rep.*, pp. F 12-F 14.  
 1928. *Dasyatis zugei*, Fowler, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 102 (Bombay).  
 1933. *Trygon zugei*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1936. *Dasybatus zugei*, Hora & Mukerji, *Rec. Ind. Mus.* XXXVIII, p. 18 (Maungmagan, Burma.).

*Distribution*.—India, Burma, Ceylon, Malay Peninsula, Cochin China, Japan, Java, Philippines.

**Genus Urogymnus Müller & Henle.**

1833. *Anacanthus* (nec. Gray, 1831) (Ehrenberg) Hoven, *Handb. Dierk.* II, p. 179, (Type, *Raja africana* Schn., inadmissible.)  
 1837. *Gymnura* (nec Kuhl, 1823) Müller & Henle, *Sitz. Ber. preuss. Akad. Wiss. Berlin*, p. 117. (Type, *Raja asperrima* Schn., monotypic ; inadmissible.)  
 1837. *Urogymnus* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 434. (Type, *Raja asperrima* Schn.).  
 1849. *Rhachinotus* (nec Gray, 1831 or Serville, (1832) Cantor, *Journ. As. Soc. Bengal* XVIII, p. 404. (Type, *Raja africana* Schn., inadmissible.)

**Urogymnus africana (Schneider).**

1801. *Raja africana*, Schneider, *Syst. Ichth. Bloch*, p. 367 (type locality : African Sea ; Guinea).  
 1801. *Raja asperrima*, Schneider, *Syst. Ichth. Bloch*, p. 367 (type locality : Indian Ocean, Bombay).  
 1841. *Anacanthus asperrimus*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 157, pl. lx, figs. 5-7 (India).  
 1870. *Urogymnus asperrimus*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 471 (India ; Pinang ; Africa ; Seychelles).  
 1878. *Urogymnus asperrimus*, Day, *Fish. India*, p. 736 pl. cxcv, fig. 1 (Madras).  
 1889. *Urogymnus asperrimus*, Day, *Faun. Brit. Ind. Fish.* I, p. 48, fig. 20 (Madras).  
 1909. *Urogymnus asperrimus*, Annandale, *Mem. Ind. Mus.* II, p. 37, pl. iii, fig. 8, pl. v, figs. 2-2a (off Chittagong).  
 1909. *Urogymnus laevior*, Annandale, *Mem. Ind. Mus.* II, p. 37 (type locality : Malpe, South Canara on Malabar Coast).  
 1912-13. *Urogymnus asperrimus*, Southwell, *Ceylon Adminstr. Rep.*, pp. E 47, E 49.  
 1913. *Rhachinotus africanus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 374 (Indian Ocean ; East Indies).  
 1941. *Urogymnus africanus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 438.

*Distribution*.—E. Africa, Seychelles, Red Sea, Arabia, India, Ceylon, Malay Peninsula, Siam, Indo-China, Borneo Java, Philippines, Melanesia.

Genus **Gymnura** Kuhl.

1823. *Gymnura* Kuhl, *Algemein Konst Letterbode*, p. 316. (Type *Raja micrura* Schneider, monotypic.)  
 1837. *Pteroplatea* Müller & Henle, *Sitz. Ber. preuss. Akad. Wiss. Berlin*, p. 117. (Atypic; type, *Raja altavela* Linn., virtually affixed by Jordan & Gilbert. *Bull. U. S. Nat. Mus.* XVI, p. 46, 1883).  
 1841. *Aetoplatea* (Valenciennes) Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 175. (Type, *Aetoplatea tentaculata* Müller & Henle, monotypic.)

**Gymnura (Aetoplatea) tentaculata** Müller & Henle.

1841. *Aetoplatea tentaculata*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 175 (type locality: Indian Sea; Red Sea; according to Bertin holotype mesuré and paratypes from Mer des Indes are in the Paris Museum).  
 1909. *Pteroplatea tentaculata*, Annandale, *Mem. Ind. Mus.* II, p. 40, pl. iv, fig. 4 (off Hughli River mouth; Orissa and Ganjam Coasts).  
 1913. *Aetoplatea tentaculata*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 411 (Red Sea; Indian Ocean; Malabar).  
 1941. *Gymnura tentaculata*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 450.

**Distribution.**—Natal, Red Sea, India, Philippines.

**Gymnura (Aetoplatea) zonurus** Bleeker.

1852. *Aetoplatea zonurus*, Bleeker, *Verh. Bat. Gen. (Plagiost.) XXIV*, p. 79 (type locality: Batavia, Java).  
 1909. *Pteroplatea zonura*, Annandale, *Mem. Ind. Mus.*, II, p. 40, pl. iv, fig. 3 (Puri, Orissa Coast, in 15-20 fathoms).  
 1941. *Gymnura zonura*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 451.

**Distribution.**—India, Singapore, Java, Philippines.

**Gymnura (Gymnura) micrura** (Schneider).

1801. *Raja micrura*, Schneider, *Syst. Ichth. Bloch*, p. 360 (type locality: "Surinam", Dutch Guiana).  
 1878. *Ceratoptera Ehrenbergii* (nec Müller & Henle), Day, *Fish. India*, p. 745, fig. (type locality: Madras; monstrosity).  
 1907. *Pteroplatea micrura*, Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).  
 1929. *Pteroplatea micrura*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII, p. 353 (Iravancore).  
 1933. *Pteroplatea micrura* Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Gymnura micrura*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 455.

**Distribution.**—Arabian Sea, India, Ceylon, Burma, Malay Peninsula, Siam, Indo-China, Malay Archipelago.

**Gymnura (Gymnura) poecilura** (Shaw).

1804. *Raja poecilura*, Shaw, *General Zoology* V, p. 291 (on *Tenkee kunesal Russell, Fish Coromandel* I, p. 4, pl. vi, 1803; type locality: Vizagapatam).  
 1870. *Pteroplatea micrura* (nec Schneider) Günther, *Cat. Fish. Brit. Mus.* VIII, p. 487 (Calcutta; Pinang; Singapore; India).  
 1878. *Pteroplatea micrura* (nec Schneider) Day, *Fish. India*, p. 741, pl. cxciv, fig. 2.  
 1889. *Pteroplatea micrura* (nec Schneider) Day, *Faun. Brit. Ind. Fish.* I, p. 56, fig. 23 (Madras).  
 1909. *Pteroplates micrura* (nec Schneider) Annandale, *Mem. Ind. Mus.* II, p. 39 (Puri).  
 1912-13. *Pteroplatea micrura* (nec Schneider), Southwell, *Ceylon, Administr. Rep.*, pp. E 43-45, E 49.  
 1919. *Pteroplatea poecilura*, Southwell & Prashad, *Rec. Ind. Mus.* XVI, p. 232, pl. xix, figs. 3, 3a (Portugal Bay, Ceylon Coast).  
 1941. *Gymnura poecilura*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 452.

**Distribution.**—Red Sea, India, Ceylon, Malay Peninsula, Siam, China, Japan, Java, Sumatra, Philippines.

## Family MYLIOBATIDAE.

Genus **Aetomylaeus** Garman.

1908. *Aetomylaeus* Garman, Bull. Mus. Comp. Zool. Harvard LI, p. 252. (Type *Myliobatis maculatus* Gray, orthotypic.)

***Aetomylaeus maculatus* (Gray).**

- 1833-34. *Myliobatis maculatus*, Gray, Ill. Ind. Zool. Hardwicke II, pl. ci (type locality : Penang).  
 1841. *Myliobatis maculatus*, Müller & Henle, Syst. Beschr. Plagiostomen, p. 178 (India).  
 1870. *Myliobatis maculata*, Günther, Cat. Fish. Brit. Mus. VIII, p. 490 (India).  
 1878. *Myliobatis maculata*, Day Fish. India, p. 742 (Seas of India to Malay Archipelago).  
 1889. *Myliobatis maculata*, Day, Faun. Brit. Ind. Fish. I, p. 59 (Seas of India to Malay Archipelago).  
 1909. *Myliobatis maculata*, Annandale, Mem. Ind. Mus. II, p. 53 (off Orissa Coast).  
 1913. *Aetomylaeus maculatus*, Garman, Mem. Mus. Comp. Zool. Harvard XXXVI, p. 435 (Indian Seas ; East Indies ; Penang).  
 1921. *Myliobatis maculata*, Malpas, Ceylon Adminstr. Rep., p. E 8.  
 1933. *Myliobatis maculatus*, Deraniyagala, Ceylon Journ. Sci. (c) V, p. 80 (Ceylon).  
 1941. *Aetomylaeus maculatus*, Fowler, Bull. U. S. Nat. Mus. (100) XIII, p. 464.

*Distribution*.—India, Ceylon, Malay Peninsula, Siam, East Indies, China Sea.

***Aetomylaeus milvus* (Müller & Henle).**

1841. *Myliobatis milvus*, Müller & Henle, Syst. Beschr. Plagiostomen p. 178 (type locality : Red Sea ; according to Bertin (*vide supra* p. 10) types from Mer des Indes are in the Paris Museum).  
 1928. *Aetomylaeus milvus*, Fowler, Journ. Bombay Nat. Hist. Soc. XXXIII p. 103 (Bombay).  
 1941. *Aetomylaeus milvus*, Fowler, Bull. U. S. Nat. Mus. (100) XIII, 466.

*Distribution*.—Red Sea, India, Pinang, East Indies, Philippines, China.

***Aetomylaeus nichofii* (Schneider).**

- 1801 *Raja nichofii*, Schneider, Syst. Ichth. Bloch. p. 364 (on Zee-oleermuis Nieuhof, Gedenk. Reiz. I, p. 278, fig. 1682 ; type locality : East Indies).  
 1804. *Raja fasciata*, Shaw, Generat. Zoology II, p. 286, pl. cxliii (or *Mookarah tenkee* Russell, Fish. Coromandal I, p. 4, pl. vii, 1803).  
 1878. *Myliobatis nieuhofii*, Day, Fish. India, p. 742 (Madras).  
 1889. *Myliobatis nieuhofii*, Day, Faun. Brit. Ind. Fish. I, p. 58 (Seas of India to the Malay Archipelago and Japan).  
 1909. *Myliobatis nieuhofii*, Annandale, Mem. Ind. Mus. II, p. 51 (off Orissa Coast ; Chittagong ; Ganges mouth ; Burma).  
 1913. *Aetomylaeus nichofii*, Garman, Mem. Mus. Comp. Zool. Harvard XXXVI, p. 436 (India ; East Indies ; Japan).  
 1915. *Aetomylaeus nichofii*, Chandhuri, Mem. Ind. Mus. V, p. 413 (Chilka Lake).  
 1919. *Aetomylaeus nichofii*, Southwell & Prashad, Rec. Ind. Mus. XVI, p. 233, pl. xix, figs. 4, 4a (Portugal Bay, Ceylon).  
 1921. *Myliobatis nieuhofii*, Malpas, Ceylon Adminstr. Rep., p. E 8.  
 1929. *Myliobatis nieuhofii*, Pillay, Journ. Bombay. Nat. Hist. Soc. XXXIII, p. 353 (Travancore).  
 1941. *Aetomylaeus nichofii*, Fowler, Bull. U. S. Nat. Mus. (100) XIII, p. 467.

*Distribution*.—India, Ceylon, Burma, Malay Peninsula, Cochin-China, China, Japan, Malay Archipelago.

**Aetomylaeus nichofii var cornifera (Annandale).**

1909. *Myliobatis nieuhofii* var. *cornifera*, Annandale, *Mem. Ind. Mus.* II, p. 52, pl. ii, fig. 4 (type locality : Balasore, Orissa Coast; type is in the Zoological Survey of India).

*Distribution*.—India, Burma.

**Genus Aetobatus Blainville.**

1816. *Aetobatus* Blainville, *Bull. Soc. Philom. Paris*, VIII, p. 122. (Type, *Raja narinari* Euphrasen, designated by Gill, *Proc. U. S. Nat. Mus.* XVII, p. 122, 1894).

1825. *Aetobatis* Blainville, *Faun. Francaise Poiss.*, p. 38, (Type, *Raja narinari* Euphrasen).

1849. *Stoasodon* Cantor, *Journ. As. Soc. Bengal* XVIII, p. 1416. (Type, *Raja narinari*, Euphrasen, monotypic).

**Aetobatus narinari (Euphrasen).**

1790. *Raja narinari*, Euphrasen, *K. svenska Vetensk-Akad. Handl. Stockholm* XI, p. 217, pl. x (type locality : St. Bartholomieu, West Indies).

1801. *Raja flagellum*, Schneider, *Syst. Ichth. Bloch*, p. 361, pl. lxxiii (type locality : Coromandel).

1839. *Aetobatis indica*, Swainson, *Nat. Hist. Animals* II, p. 321. (on *Eel tenkee* Russell, *Fish. Coromandel* I, p. 5, pl. viii, 1803 ; Vizagapatam).

1841. *Myliobatus macroptera*, McClelland, *Calcutta Journ. Nat. Hist.* I, p. 60, pl. ii, fig. 1 (type locality : Bengal).

1870. *Aetobatis narinari*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 492 (Pinang ; India ; Seychelles ; Sumatra).

1878. *Aetobatis narinari*, Day, *Fish. Ind.*, p. 743, pl. xciv, fig. 4 (Red Sea ; Seas and estuaries of India to the Malay Archipelago and beyond).

1889. *Aetobatis narinari*, Day, *Faun. Brit. Ind. Fish.* I, p. 59, fig. 24 (Red Sea ; Seas and estuaries of India to the Malay Archipelago and beyond).

1907. *Aetobatis narinari*, Lloyd, *Rec. Ind. Mus.* I, p. 220 (Akyab).

1909. *Aetobatis flagellum*, Annandale, *Mem. Ind. Mus.* II, p. 57 pl. iv, fig. 5 (off Orissa Coast and Chilka Lake).

1910. *Aetobatis narinari*, Annandale, *Mem. Ind. Mus.* III, p. 4, pl. ii, fig. 2 (off Madras Coast).

1912-13. *Aetobatis narinari*, Pearson, *Ceylon Adminstr. Rep.*, p. E 5.

1913. *Aetobatus flagellum*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 440 (Red Sea ; Indian Ocean).

1913. *Aetobatus narinari*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 441 (tropical and temperate parts of the Atlantic and the Eastern Pacific).

1929. *Aetobatis narinari*, Pillay, *Journ. Bombay Nat. Hist.* XXXIII, p. 353 (Travancore).

1933. *Stoasodon narinari*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 81 (Ceylon).

1933. *Aetobatus narinari*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).

1941. *Aetobatus narinari*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 471.

*Distribution*.—Natal, Madagascar, Seychelles, Red Sea, Arabia, India, Burma, Ceylon, Malay Peninsula, Siam, Cochin China, China, Java, Borneo, Celebes, Philippines, Melanesia, Polynesia, Hawaiian Group, Micronesia. According to Fowler (*vide supra* p. 25) *Aetobatus narinari* “ranges through the tropical Atlantic and along the American shores in the tropical eastern Pacific.”

**Family RHINOPTERIDAE.****Genus Rhinoptera Cuvier.**

1829. *Rhinoptera* Cuvier, *Régne Animal*, II, ed. 2, p. 401. (Type, *Myliobatis marginata* Geoffroy Saint-Hilaire, designated by Fowler, *Bull. Geol. Surv. New Jersey* IV, p. 101, 1911).

**Rhinoptera adspersa** Müller & Henle.

1841. *Rhinoptera adspersa*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 183  
(type locality: India; according to Bertin (*vide supra*, p. 9) holotype is in the Paris Museum).
1878. *Rhinoptera adspersa*, Day, *Fish. India*, p. 744 (Madras).
1889. *Rhinoptera adspersa*, Day, *Faun. Brit. Ind. Fish.* I, p. 61 (Seas of India).
1913. *Rhinoptera adspersa*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 447 (Indian Ocean).
1933. *Rhinoptera adspersa*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 81 (Ceylon).
1941. *Rhinoptera adspersa*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 477.

*Distribution*.—India, Ceylon, East Indies.

**Rhinoptera javanica** Müller & Henle.

1841. *Rhinoptera javanica*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 182, pl. lviii (type locality: Java; according to Bertin (*vide supra*, p. 9) type from Malabar Coast is in the Paris Museum).
1865. *Rhinoptera javanica*, Duméril, *Hist. Nat. Elasmobr.* I, p. 647 (Malabar).
1878. *Rhinoptera javanica*, Day, *Fish. India*, p. 744, pl. cxcv, fig. 4 (Kurrachee), 1889. *Rhinoptera javanica*, Day, *Faun. Brit. Ind. Fish.* I, p. 61, fig. 25 (Seas of India to Malay Archipelago).
- 1912-13. *Rhinoptera javanica*, Southwell, *Ceylon Adminstr. Rep.*, p. E 50.
1913. *Rhinoptera javanica*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 446 (Java; India).
1929. *Rhinoptera javanica*, Pillay, *Journ. Bombay Nat. Hist.* XXXIII, p. 354 (Travancore).
1933. *Rhinoptera javanica*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 81.
1942. *Rhinoptera javanica*, Sarangdhar, *Ind. Journ. Med. Res.* XXX, p. 558 (Bombay).

*Distribution*.—India, Ceylon, Malay Peninsula, Siam, China, Malay Archipelago.

**Rhinoptera jayakari** Boulenger.

1895. *Rhinoptera jayakari*, Boulenger, *Ann. Mag. Nat. Hist.* (6) XV, p. 141 (type locality: Muscat, Arabia; type is in the British Museum).
1913. *Rhinoptera jayakari*, Garman, *Mem. Mus. Comp. Zool. Harvard XXXVI*, p. 448 (Muscat).
1941. *Rhinoptera jayakari*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 478.

*Distribution*.—Muscat.

**Rhinoptera sewelli** Misra.

1946. *Rhinoptera sewelli*, Misra, *Rec. Ind. Mus.* XLIV, p. 361, pl. i (type locality: West Hill, off the Calicut coast, Arabian Sea; holotype is in the Zoological Survey of India).

*Distribution*.—Arabian Sea, off the coast of Calicut.

## Family MOBULIDAE.

Genus **Mobula** Rafinesque.

1810. *Mobula* Rafinesque, *Indice d' Ittiol, Sicil.*, pp. 48, 61. (Type, *Mobula auriculata* Rafinesque, monotypic).
1810. *Apterurus* Rafinesque, *Indice d' Ittiol Sicil.*, p. 48, 62. (Type, *Raja fabroniana* Lacepede, monotypic).
1810. *Cephalopterus* (nec *Geoffroy St. failaire* 1809) (Dumeril) Risso, *Ichth. Nice*, p. 14; type, *Raja giorna* Lac.-*Raja cephaloptera* Schn., virtually tautotypic; inadmissible.

1816. *Dicerobatus* Blainville, *Bull. Soc. Philom. Paris* VIII, p. 121. (Type, *Raja mobular* Bonnaterre, designated by Jordan, *Gen. Fish.* p. 95, 1917.)  
 1817. *Cephaloptera* Cuvier, *Régne Animal.* II, ed. 1, pl. 138. (Type, *Raja cephaloptera* Schneider, monotypic).  
 1825. *Dicerobatis* Blainville, *Faune Francaise Vertebr.*, p. 40. (Type, *Raja mobular* Bonnaterre).

### **Mobula diabolus (Shaw).**

1804. *Raja diabolus*, Shaw, *General Zoology* V, p. 291 (on *Eregoodoo-tenkee* Russell, *Fish. Coromandel* I, p. 5, pl. ix, 1803 (type locality : Vizagapatam)).  
 1829. *Raja eregoodoo-tenkee*, Cuvier, *Régne Animal*, ed. 2, II p. 402 (on *Eregoodoo-tenkee* Russell, 1803).  
 1841. *Cephaloptera kuhlii*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 185, pl. lix, fig. 1 (type locality : India, according to Bertin (*vide supra*, p. 9) the paratype is in the Paris Museum).  
 1870. *Dicerobatis eregoodoo*, Günther, *Cat. Fish. Brit. Mus.* VIII, p. 497 (Indian Seas).  
 1870. *Dicerobatis kuhlii*, Gunther, *Cat. Fish. Brit. Mus.* VIII, p. 497 (India ; Zanzibar).  
 1878. *Dicerobatis eregoodoo*, Day, *Fish. India*, p. 744, pl. cxviii, fig. 1 (Seas of India to Malay Archipelago).  
 1878. *Dicerobatis kuhlii*, Day, *Fish. India*, p. 745 (East Coast of Africa, through the Seas of India to the Malay Archipelago).  
 1889. *Dicerobatis eregoodoo*, Day, *Faun. Brit. Ind. Fish.* I, p. 62, fig. 26 (Seas of India to the Malay Archipelago).  
 1889. *Dicerobatis kuhlii*, Day, *Faun. Brit. Ind. Fish.* I, p. 63 (East Coast of Africa, through the Seas of India to the Malay Archipelago).  
 1908. *Dicerobatis eregoodoo*, Lloyd, *Rec. Ind. Mus.* II, p. 179, text-fig. 2, pl. iv, fig. 1 (Madras).  
 1908. *Dicerobatis thurstoni*, Lloyd, *Rec. Ind. Mus.* II, p. 179, text-fig. 3, pl. iv, fig. 2 (type locality : Madras).  
 1913. *Mobula eregoodoo-tenkee*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 451 (Seas of India ; Malay Archipelago ; Red Sea).  
 1913. *Mobula kuhlii*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 452 (Indian Ocean ; East Indies ; Japan).  
 1929. *Dicerobatis eregoodoo*, Pillay, *Journ. Bombay Nat. Hist.* XXXIII, p. 354 (Travancore).  
 1933. *Mobula eregoodoo-tankee*, Deraniyagala, *Ceylon Journ. Sci. (c)* V, p. 80 (Ceylon).  
 1933. *Dicerobatis eregoodoo*, Sorley, *Marine Fish. Bombay Presidency*, p. 159 (Bombay).  
 1941. *Mobula diabolus*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 480.

*Distribution*.—Red Sea, Arabia, India, Ceylon, Penang, Malay Archipelago and Queensland.

### **Genus Manta Bancroft.**

1829. *Manta* Bancroft, *Zool. Journ.* IV, p. 444. (Type, *Cephalopterus manta* Bancroft, monotypic).  
 1837. *Ceratoptera* Müller & Henle, *Sitz Ber. preuss. Akad. Wiss. Berlin*, p. 118. [Atypic ; type, *Cephalopterus giorna* (nec Lac.) Lesueur, orthotypic].  
 1849. *Brachioptilon*, Newman, *Zoologist*. VII, p. 74. (Type, *Brachioptilon hamiltoni* Newman, monotypic).  
 1856. *Diabolichthys* Holmes, *Proc. Elliott Soc. Nat. Hist.* I, p. 39. (Type, *Diabolichthys elliotii* Holmes, monotypic).  
 1936. *Indomanta* Whitley, *Austral. Mus. Mag.* VI, p. 11. (Type, *Indomanta tombazii* Whitley, orthotypic).

**Manta birostris** (Walbaum).

1792. *Raja birostris*, Walbaum, *Artedi Pisc.* III, p. 535 (on *Diabolus marinus* Willoughby, *Hist. Pisc. Append.*, p. 5, pl. ix, fig. 3, 1686; type locality: not given).  
 1878. *Ceratoptera ehrenbergii*, Day, *Fish. India*, p. 745 (nec woodcut).  
 1908. *Ceratoptera orissa*, Lloyd, *Rec. Ind. Mus.* II, p. 176, text-fig. 1, pls. v, figs. 1, 2 (type locality: Puri).  
 1936. *Indomanta tombazii*, Whitley, *Austral. Mus. Mag.* VI, p. 11 (on *Dicerobatis* nec Cantor, Tombazi, *Journ. Bombay Nat. Hist. Soc.* XXXVII, p. 227, pl., 1934; type locality: Cape Mouze, 20 miles from Karachi, India).  
 1941. *Manta birostris*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 483.

*Distribution*.—S. Africa, Red Sea, India, Malay Peninsula, Malay Archipelago, Melanesia, North America, South America, Galapagoes Islands and West Indies.

**Order TORPEDINIFORMES (*NARCOBATOIDEI*,  
*NARCATIONTES*).**

**Family TORPEDINIDAE.**

**Genus *Narcine* Henle.**

1834. *Narcine* Henle, *Über Narcine*, p. 31. (Type, *Torpedo brasiliensis* Olfers).

***Narcine brunnea* Annandale.**

1878. *Narcine timlei* (part), Day, *Fish. India*, p. 733, pl. xcii, fig. 3 (Seas of India to Malay Archipelago).  
 1889. *Narcine timlei* (Part), Day, *Faun. Brit. Ind. Fish.* I, p. 45, fig. 18 (Seas of India to Malay Archipelago).  
 1909. *Narcine brunnea*, Annandale, *Mem. Ind. Mus.* II, p. 45, pl. iiiia, fig. 2, 2a (type locality: Hughli river mouth; type is in the Zoological Survey of India).  
 1913. *Narcine brunnea*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 300 (off the Coasts of India).  
 1913. *Narcine firma*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI, p. 301 (type locality: Colombo, Ceylon).

*Distribution*.—India, Ceylon, Philippines.

***Narcine indica* Henle.**

1834. *Narcine indica*, Henle, *Über Narcine*, p. 35; pl. ii, fig. 2 (type locality: Tranquebar Coast, Madras).  
 1851. *Narcine indica*, Jerdon, *Madras Journ. Lit. Sci.* XVII, p. 148.  
 1865. *Narcine indica*, Day, *Fish. Malabar*, p. 276 (Malabar).  
 1878. *Narcine timlei* (part) Day, *Fish. India*, p. 733, nec. pl. xcii, fig. 3 (India; Malay Archipelago).  
 1889. *Narcine timlei* (part) Day, *Faun. Brit. Ind. Fish.* I, p. 45, nec. fig. 18 (India; Malay Archipelago).  
 1909. *Narcine timlei* (part) Annandale, *Mem. Ind. Mus.* II, p. 44, pl. iiiia, figs. 1, 1a (Puri, Orissa Coast).  
 1920. *Narcine indica*, Prashad, *Rec. Ind. Mus.* XIX, p. 99, pl. vii, figs. 4-9 (Orissa Coast).  
 1939. *Narcine indica*, Norman, *Sci. Rep. John Murray Exped. London*, VII, p. 12 (Gulf of Aden; Indian Seas).  
 1941. *Narcine maculata*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 333.

*Distribution*.—India, Malay Archipelago, Gulf of Aden.

**Narcine timlei** (Schneider).

1801. *Raja timlei*, Schneider, *Syst. Ichth. Bloch*, p. 359 (type locality : Tranquebar, Madras).  
 1834. *Narcine timlei*, Henle, *Über. Narcine*, p. 34, pl. ii, fig. 1, 1a (Tranquebar).  
 1941. *Narcine timlei*, Müller & Henle, *Syst. Beschr. Plagiostomen*, p. 130 (India ; Japan).  
 1878. *Narcine timlei*, (part), Day, *Fish. India*, p. 733, nec pl. cxcii, fig. 3 (Seas of India to the Malay Archipelago, China, Japan).  
 1889. *Narcine timlei*, (part), Day, *Faun. Brit. Ind. Fish.* I, p. 45, nec fig. 18 (Seas of India to the Malay Archipelago).  
 1933. *Narcine timlei*, Deraniyagala, *Ceylon Journ. Sci.* (c) V, p. 80 (Ceylon).  
 1941. *Narcine timlei*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 334.

*Distribution*.—India, Ceylon, Malay Archipelago, China, Japan.

Genus **Benthobatis** Alcock.

1898. *Benthobatis* Alcock, *Ann. Mag. Nat. Hist.* (7) II, p. 144. (Type, *Benthobatis moresbyi* Alcock, monotypic).

**Benthobatis moresbyi** Alcock.

1898. *Benthobatis moresbyi* Alcock, *Ann. Mag. Nat. Hist.* (7) II, p. 145 (type locality : Off Travancore Coast, in 430 fathoms ; type is in the Zoological Survey of India).  
 1899. *Benthobatis moresbyi*, Alcock, *Ill. Zool. Investig. Fish*, pl. xxvi, fig. 1 (off Travancore Coast).  
 1899. *Benthobatis moresbyi*, Alcock, *Cat. Ind. Deep Sea Fish.*, p. 18 (off Travancore Coast).  
 1907. *Benthobatis moresbyi*, Lloyd, *Rec. Ind. Mus.* I, p. 4 ( $15^{\circ} 55' 30''$  N.,  $52^{\circ} 38' 30''$  E., in 585 fms., Arabian Sea).  
 1909. *Benthobatis moresbyi*, Annandale, *Mem. Ind., Mus.* II, pl. iiiia, figs. 5, 5a.  
 1909. *Benthobatis moresbyi*, Lloyd, *Mem. Ind. Mus.* II, p. 145. (Arabian Sea).  
 1941. *Benthobatis moresbyi*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 339.

*Distribution*.—Arabian Sea, India, Philippines.

Genus **Torpedo** Houttuyn.

1764. *Torpedo* Houttuyn, *Nat. Hist. Linn.* p. 453. (Atypic ; type, *Raja torpedo* Linn., tautotypic).  
 1776. *Narcacion* Klein, *Neuer Schauplatz* II, p. 237. (Type, *Raja torpedo* Linn., designated by Jordan, *Gen. Fish.*, p. 39, 1917 ; inadmissible according to Opinion 89 of the International Commission of Zoological Nomenclature).  
 1806. *Torpedo* Duméril, *Zool. Analytique*, p. 343. (Atypic ; type, *Raja torpedo* Linn.).  
 1816. *Narcobatus* Blainville, *Bull. Soc. Philom. Paris* VIII, p. 121. (Type *Raja torpedo* Linn., designated by Jordan, *Gen. Fish.*, p. 95, 1917).  
 1825. *Narcobatus* Blainville, *Faune Francaise Poiss.*, p. 43. (Type, *Raja torpedo* Linn. ; monotypic).

**Torpedo marmorata** Risso.

1810. *Torpedo marmorata*, Risso, *Ichth. Nice*, p. 20, pl. exi, fig. 4 (type locality Nice).  
 1909. *Torpedo m. morata*, Annandale, *Mem. Ind. Mus.* II, p. 42 pl. iiiia, fig. 4 ; pl. v, fig. 3 (Puri ; Quilon).  
 1912. *Torpedo zugmayeri*, Englehardt, *Zool. Anz.* XXXIX, p. 647 (type locality : Gwadar, Beluchistan).  
 1920. *Torpedo marmorata*, Prashad, *Rec. Ind. Mus.* XIX, p. 98 (Orissa Coast).  
 1941. *Torpedo marmorata*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 342.

*Distribution*.—E. Africa, Madagascar, Mauritius, Seychelles, Red Sea, India, Philippines.

### **Torpedo sinus persici** Olfers.

1831. *Torpedo sinus persici*, Olfers, *Torpedo*, pp. 15, 17 (on Kampfer).  
 1926. *Torpedo sinus persici*, Fowler, *Journ. Bombay Nat. Hist. Soc.* XXX, p. 2  
     (Bombay).  
 1928. *Torpedo sinus persici*, Fowler, *Journ. Bombay Nat. Hist.* XXXIII, p. 101  
     (Bombay).

*Distribution*.—S. Africa, Madagascar, Persian Gulf, India, Philippines.

### Genus **Narke** Kaup.

1826. *Narke* Kaup, *Isis* XVIII, p. 88. (Type, *Raja capensis* Gmelin, monotypic).  
 1837. *Astrape* Müller & Henle, *Sitz. Ber. Akad. Wiss. preuss. Berlin*, p. 117.  
     (Atypic ; type, *Raja capensis*, Gmelin designated by Jordan, *Gen. Fish.* II, p. 193, 1919).

### **Narke dipterygia** (Schneider).

1801. *Raja dipterygia*, Schneider, *Syst. Ichth. Bloch*, p. 359 (type locality : Tranquebar, Madras).  
 1851. *Astrape dipterygia*, Jerdon, *Madras Journ. Lit. Sci.* XVII, p. 149.  
 1878. *Astrape dipterygia* (part) Day, *Fish. India*, p. 734, nec pl. xcii, fig. 4  
     (Seas of India to the Malay Archipelago, China and Japan).  
 1889. *Astrape dipterygia* (part) Day, *Faun. Brit. Ind. Fish.* I, p. 46, nec fig. 19  
     (Seas of India to the Malay Archipelago, China and Japan).  
 1909. *Astrape dipterygia*, Annandale, *Mem. Ind. Mus.* II, p. 46, pl. iiiia, fig. 6  
     (off Orissa Coast).  
 1913. *Narke dipterygia*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI,  
     p. 313 (Penang ; Singapore ; Malay Peninsula ; Lancavy Islands ;  
     Malacca ; Hindustan ; Canton).  
 1914. *Astrape dipterygia*, Pearson, *Ceylon Adminstr Rep.*, p. E 4.  
 1920. *Narke dipterygia*, Prashad, *Rec. Ind. Mus.* XIX, p. 100, pl. vi, figs. 1, 2  
     (Puri, Orissa).  
 1927. *Narke dipterygia*, Fowler, *Journ. Bombay Nat. Hist. Soc.* XXXII, p. 253  
     (Bombay).  
 1929. *Astrape dipterygia*, Pillay, *Journ. Bombay Nat. Hist. Soc.* XXXIII,  
     p. 355 (Travancore).

*Distribution*.—Arabian Sea, India, Ceylon, Malay Peninsula, Indo-China, China, Japan, Philippines.

### Genus **Bengalichthys** Annandale.

1909. *Bengalichthys* Annandale, *Mem. Ind. Mus.* II p. 46 (Type, *Bengalichthys impennis* Annandale, monotypic).

### **Bengalichthys impennis** Annandale.

1878. *Astrape dipterygia* (part) Day, *Fish. India*, p. 734, pl. xcii, fig. 4 (Madras).  
 1889. *Astrape dipterygia* (part) Day, *Faun. Brit. Ind. Fish.* I, p. 46, fig. 19 (Seas of India to the Malay Archipelago).  
 1909. *Bengalichthys impennis*, Annandale, *Mem. Ind. Mus.* II, p. 48, text-fig. 9  
     pl. iiiia, figs. 7, 7a (type locality : Orissa Coast).  
 1913. *Narke impennis*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXXVI,  
     p. 315 (Coast of Orissa, Bay of Bengal).  
 1920. *Bengalichthys impennis*, Prashad, *Rec. Ind. Mus.* XIX, p. 103, pl. vi,  
     figs. 3, 4 ; pl. vii, figs. 1-3 (Puri, Orissa).  
 1941. *Narke impennis*, Fowler, *Bull. U. S. Nat. Mus.* (100) XIII, p. 352.

*Distribution*.—India, Philippines,

## Class HOLOCEPHALI.

## Sub-Class CHIMAERAE.

## Order CHIMAERIFORMES.

## Family CHIMAERIDAE.

Genus **Chimaera** Linnaeus.

1758. *Chimaera* Linnaeus, *Syst. Nat.* I, ed. 10, p. 236. (Type, *Chimaera monstrosa* Linnaeus, designated by Jordan & Gilbert, *U. S. Nat. Mus. Bull.* p. 54, 1884).

**Chimaera monstrosa** Linnaeus.

1758. *Chimaera monstrosa*, Linnaeus, *Syst. Nat.* I, ed. 10, p. 236 (type locality : Atlantic Ocean).

1812. ?*Chimaera monstrosa*, Alcock, *Ann. Mag. Nat. Hist.* (6) X, p. 347 (Bay of Bengal, 16° 1' N., 81° 25' E., 410 fms. an empty egg capsule 9" in length).

1906. *Chimaera monstrosa*, Brauer, "Valdivia" *Tiefsee Fische* XV, p. 10 (West coast of Sumatra, 0° 15' 5" S., 98° 4' E.).

*Distribution*.—South Africa, Bay of Bengal, west coast of Sumatra, North and Middle Atlantic and Mediterranean.

## Family RHINOCHIMAERIDAE.

Genus **Harriotta** Goode & Bean.

1895. *Harriotta* Goode & Bean, *Proc. U. S. Nat. Mus.* XVII, p. 471. (Type, *Harriotta raleighana* Goode & Bean, monotypic).

**Harriotta (?) indica** (Garman).

1891. *Callorhynchus* ? sp., Wood-Mason & Alcock, *Ann. Mag. Nat. His.* (6) VIII, p. 21, fig. 1 (Bay of Bengal 13° 47' 30" N., 92° 36' E.).

1899. *Callorhynchus indicus*, Garman, *Mem. Mus. Comp. Zool. Harvard* XXIV, p. 21 (Bay of Bengal).

1906. *Harriotta* (?) *indica*, Dean, *Chimaeroid Fish. and their Devel.*, p. 30 (Bay of Bengal).

1939. *Harriotta* (?) *indica*, Norman, *Sci. Rep. John Murray Exped.* VII, p. 14 (Gulf of Aden ; Bay of Bengal).

*Distribution*.—Gulf of Aden ; Bay of Bengal. *Harriotta* (?) *indica* has been provisionally recorded from the egg-capsules, the parent fish has not yet been recognised.

**Rhinochimaera** sp.

1913. *Rhinochimaera* sp., Sewell, *Rec. Ind. Mus.* VII, p. 2 (off Travancore Coast 9° 14' 10" N., 75° 45' E.).

*Distribution*.—Arabian Sea, off Travancore Coast. Col. Sewell (*op. cit.*) writes : "The occurrence of this egg-case and embryo is of extreme interest, as it is, so far as I am aware, the first occasion on which an embryo of *Rhinochimaera* has been obtained and affords undoubted evidence of the occurrence of this genus in Indian waters."